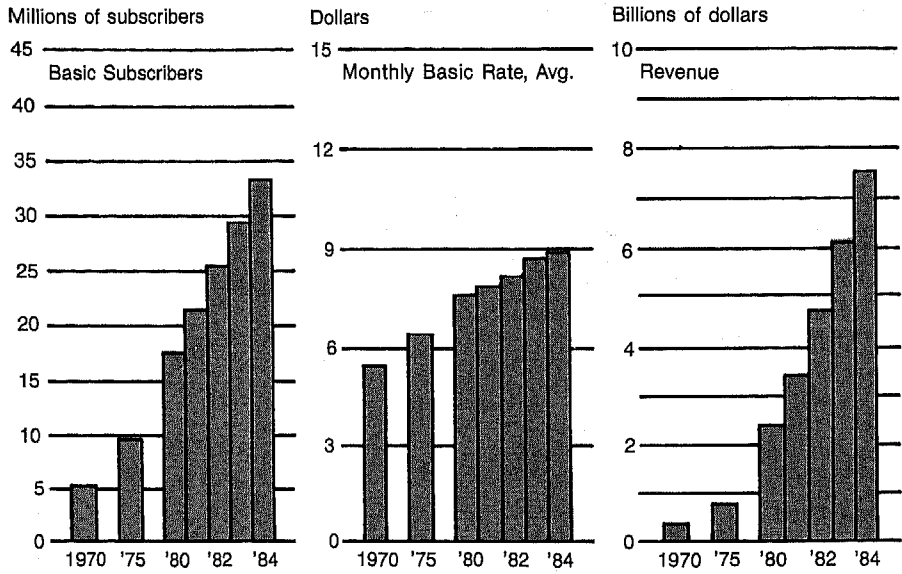
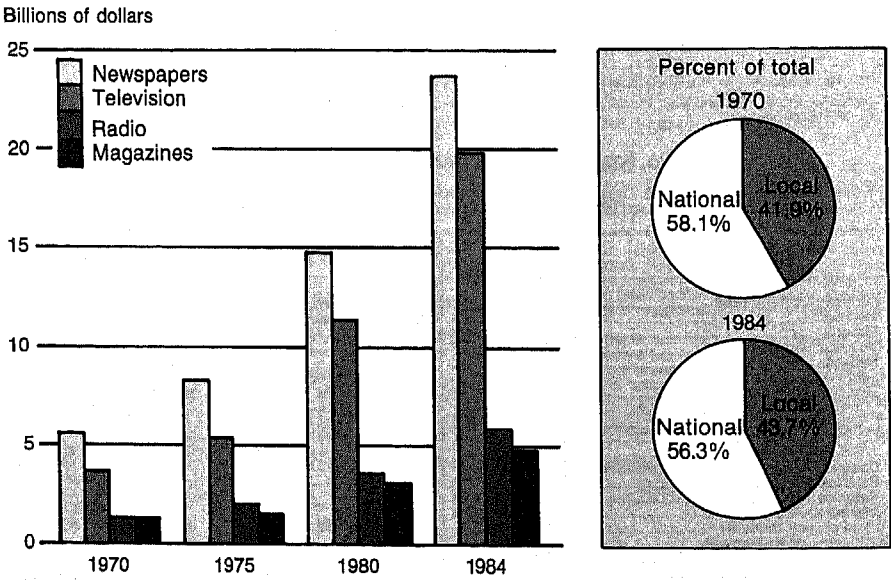


Figure 19.1
Cable TV — Average Subscribers, Average Monthly Rate and Revenue: 1970 to 1984

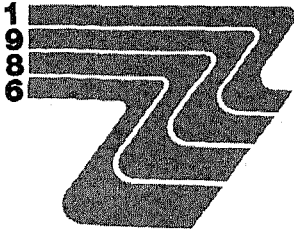


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 939.

Figure 19.2
Advertising Expenditures by Selected Media: 1970 to 1984



Source: Chart prepared by U.S. Bureau of Census. For data, see table 950.



This section presents statistics on the usage, finances, and operations of the Postal Service and of the various communications media: Telephone, telegraph, radio, television, newspapers and periodicals. Expenditures data for advertising in the media are also included.

Postal Service.—The Postal Service provides mail processing and delivery services within the United States. The Postal Reorganization Act of 1970 created the Postal Service, effective July 1971, as an independent establishment of the Federal Executive Branch; it also placed restrictions on the private delivery of mail.

"Revenue and cost analysis" is the term used by the Postal Service to describe its system of attributing revenues and costs to classes of mail and service. This system draws primarily upon probability sampling techniques to develop estimates of revenues, volumes, and weights, as well as costs by class of mail and special service. The costs attributed to classes of mail and special services are primarily incremental costs which vary in response to changes in volume; they account for roughly 60 percent of the total costs of the Postal Service. The balance represents "institutional costs" which includes funds for research and development, portions of personnel and office supplies, etc. Statistics on revenues, volume of mail, and distribution of expenditures are presented in the Postal Service's annual report, *Revenue and Cost Analysis*, and its *Annual Report of the Postmaster General*.

Communication media.—The Federal Communications Commission (FCC), established in 1934, regulates wire and radio communications and licenses radio and television stations. Only the largest carriers and controlling companies file annual or monthly financial reports. Jurisdiction of the FCC applies to domestic and overseas telegraph carriers and to the Communications Satellite Corporation (Comsat), but not to a large number of telephone carriers that are engaged in intrastate service. The gross operating revenues of the telephone carriers reporting annually to the FCC, however, are estimated to cover about 90 percent of the revenues of all U.S. telephone companies.

Reports filed by the broadcasting industry cover substantially all radio and television stations operating in the United States and its outlying areas. Statistics covering the private radio services represent the largest and most diverse group of licensees regulated by the FCC. These services primarily provide two-way radio communication for emergency and business purposes in the aviation, marine, land transportation, and other industries; police, fire, and other public safety programs; and amateur and personal operations. Principal sources of wire, radio, and television data are the FCC's *Annual Report*, and its annual *Statistics of Communications Common Carriers*.

Statistics on the printed media are available from the U.S. Bureau of the Census, as well as from various private agencies. The censuses of manufactures (conducted by the Census Bureau every five years, for the years ending in "2" and "7") provide statistics on the number and circulation of newspapers and periodicals and on sales of books and pamphlets. Editor & Publisher Co., Inc., New York, presents annual data on the number and circulation of daily and Sunday newspapers in its *International Year Book*. Monthly data on new books and new editions appear in *Publishers Weekly*, issued by R. R. Bowker Company, New York. (See table 387 for annual data.)

Advertising.—The statistics on advertising expenditures are compiled primarily by private organizations. McCann-Erickson, Inc., which compiles certain of the data shown (see tables 948-950), defines national advertising as the advertising done for companies whose products are distributed nationally, and for which national media rates are paid. Local advertising is defined as the advertising done for companies which market their products locally and which may pay special "local" media rates. Spot advertising is considered time bought by a national advertiser on a selective market basis. Monthly index figures of advertising in certain media are also published periodically by McCann-Erickson in *Advertising Age*.

The Broadcast Advertisers Reports (see tables 952-954) distinguished between spot and local advertising primarily on the basis of the type of advertiser to whom the time is sold, rather than how and by whom it is sold. In general, time purchased on behalf of retail or service establishments in the market is considered local, even though the establishments may be part of a national or regional chain. That is, spot advertising promotes a product, while local advertising promotes a given es-

tablishment. Network advertising, mutually exclusive of spot and local, is broadcast through the network system.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

No. 918. U.S. POSTAL SERVICE—SUMMARY: 1900 TO 1983

[For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. See text, p. 537. See also *Historical Statistics, Colonial Times to 1970*, series R 163-171]

YEAR	Number of post offices	FINANCES ¹				Revenue per capita ³ (dol.)	Sales of stamps and stamped paper (mil. dol.)	Postage paid under permit and meter (mil. dol.)	Money orders issued, total (mil. dol.)	PIECES OF MAIL HANDLED (est.)			
		Revenues (mil. dol.)	Expenditures ² (mil. dol.)	Deficit (mil. dol.)	Total ⁴ (bil.)					First-class ⁵		Second-class (bil.)	
										Number (bil.)	Per cent		
1900.....	76,688	102	108	5	1.34	94	(⁷)	256	7.1	(NA)	(NA)	(NA)	
1910.....	59,580	224	230	6	2.43	202	4	638	14.9	(NA)	(NA)	(NA)	
1920.....	52,641	437	454	17	4.11	380	13	1,356	(NA)	(NA)	(NA)	(NA)	
1930.....	49,063	705	804	98	5.75	575	74	1,767	27.9	16.9	60.6	5.0	
1940.....	44,024	767	808	41	5.84	522	177	2,108	27.7	15.2	54.9	4.8	
1950.....	41,464	1,677	2,223	545	11.14	862	678	⁸ 5,138	45.1	24.5	54.3	6.3	
1955.....	38,316	2,349	2,712	363	14.33	999	1,136	5,883	55.2	28.7	52.0	6.7	
1960.....	35,238	3,277	3,874	597	18.27	1,245	1,699	5,058	63.7	33.2	52.1	7.5	
1965.....	33,624	4,483	5,276	793	23.17	1,528	2,529	4,540	71.9	38.1	53.0	8.6	
1970.....	32,002	7,702	7,667	165	31.05	1,936	3,883	4,709	84.9	48.6	57.2	9.4	
1971.....	31,947	8,751	8,955	204	32.24	1,999	4,126	4,728	87.0	50.0	57.5	9.6	
1972.....	31,686	9,347	9,522	175	37.89	2,371	4,861	4,731	87.2	48.9	58.1	9.5	
1973.....	31,385	9,913	9,926	13	39.77	2,399	5,141	4,700	89.7	51.0	56.9	9.0	
1974.....	31,000	10,857	11,295	438	42.85	2,504	5,623	5,194	90.1	51.6	57.3	8.8	
1975.....	30,754	11,590	12,578	988	47.08	2,819	6,241	5,856	89.3	51.4	57.6	9.1	
1976.....	30,521	12,747	13,923	1,176	52.21	3,155	6,883	6,243	89.8	52.1	58.0	8.9	
1976, TQ ⁹	30,521	3,402	3,387	¹⁰ 15	14.11	815	1,895	1,639	21.5	12.5	58.1	2.1	
1977.....	30,521	14,622	15,310	688	60.18	3,658	7,951	5,636	92.2	63.7	58.2	8.7	
1978.....	30,518	15,641	16,220	379	64.91	3,943	8,668	5,587	98.9	56.0	57.8	8.7	
1979.....	30,449	17,989	17,529	¹⁰ 470	73.37	4,382	10,062	5,631	99.8	58.0	58.1	8.4	
1980.....	30,326	19,106	19,412	306	77.32	4,287	10,828	6,112	106.3	60.3	56.7	8.4	
1981.....	30,242	20,781	21,369	588	83.62	4,625	11,891	6,692	110.1	61.5	55.8	10.0	
1982.....	30,155	23,628	22,826	¹⁰ 802	97.83	5,559	13,984	6,820	114.0	62.3	54.5	9.5	
1983.....	29,990	24,899	24,083	¹⁰ 816	101.08	5,709	14,755	7,355	119.4	64.3	53.8	9.2	

NA. Not available. ¹ After allowance for reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Through 1950, includes some payments and receipts applicable to services in prior years; beginning 1955, expenditures are shown in year in which obligation was incurred, and revenues in year which gave rise to the earnings, whether collected or accrued. In 1954, the Postal Service began receiving reimbursement for penalty and franked mail, and discontinued payment of subsidies to airlines. Revenues for 1980 include \$37.4 million reimbursement from the Treasury General Fund for statutory public services. These and other changes affect comparability of figures. See also footnote 3, table 919. ² Includes capital expenditures for plant and equipment and cost of materials and supplies, but no provision for depreciation. Also includes costs of certain services rendered to other agencies without reimbursement but excludes costs of certain services rendered to the Postal Service by other agencies. Beginning 1955, represents obligations incurred; beginning 1965, represents accrued expenses, including depreciation on fixed assets, reimbursable work for others, and expenses paid by certain other agencies without reimbursement by the Postal Service. ³ Operating revenue only; based on Bureau of the Census estimated total population as of Jan. 1, including Armed Forces abroad. ⁴ Includes other classes of mail not shown separately. See table 921. ⁵ Items mailed at 1st-class rates and weighing 12 ounces or less. Beginning 1977, includes air mail which was discontinued as a separate class of mail. Includes items wholly or partially in writing or typewriting, cards or bills and statements of account, items closed against postal inspection, etc. ⁶ Includes mail paid at other than bulk rates. ⁷ Service not inaugurated. ⁸ Includes postal notes issued under act of Congress. ⁹ Transition quarter, July-Sept. ¹⁰ Net income.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 925. U.S. POSTAL SERVICE REVENUES: 1960 TO 1984

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. See text, p. 541]

ITEM	1960	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
Total revenue ¹	3,277	7,702	11,590	14,622	15,841	17,999	19,106	20,781	23,628	24,699	26,474
SOURCE											
Operating postal revenue ²	3,270	6,347	10,015	12,998	14,133	16,106	17,143	19,133	22,600	23,582	25,314
Stamps, postal cards, etc.	1,245	1,936	2,819	3,658	3,943	4,382	4,287	4,625	5,559	5,709	6,023
Second-class postage paid in money (pound rates) ³	86	192	284	427	551	755	881	911	996	991	1,056
Other postage paid under permit and meter	1,699	3,883	6,241	7,951	8,668	10,062	10,828	11,891	13,984	14,755	16,067
Box rents	29	44	67	109	124	153	160	168	168	202	189
Miscellaneous	⁴ 147	236	558	748	758	863	892	1,427	1,771	1,801	1,847
Money-order revenues	64	56	53	105	89	91	95	111	122	124	132
Government appropriations	-	1,355	1,533	1,712	1,722	1,720	1,610	1,275	707	789	879
Percent of total revenue	-	17.6	13.2	11.7	10.9	9.6	8.4	6.1	3.0	3.2	3.3
Investment income, net	-	-	37	⁵ -88	⁶ -14	173	353	373	321	328	282
MAIL AND SERVICE											
First-class mail ⁷	1,510	3,291	5,798	7,831	8,575	9,733	10,146	11,457	13,747	14,255	15,216
Priority mail ⁸	-	282	411	468	497	561	612	758	823	849	926
Second-class publishers' mail ⁹	89	190	277	416	539	739	884	885	961	958	1,025
Third-class mail ¹⁰	441	827	1,348	1,748	1,987	2,216	2,412	2,643	3,303	3,677	4,241
Bulk rate	(NA)	(NA)	1,167	1,508	1,745	1,967	2,168	2,405	3,092	3,482	4,039
Single piece rate and fees	(NA)	(NA)	181	240	242	248	244	238	211	195	202
Fourth-class mail ¹¹	607	778	718	769	673	747	805	786	788	753	774
Zone rate mail (parcels, catalogs, etc.)	(NA)	(NA)	577	594	460	484	500	499	507	500	519
Special fourth-class rate	(NA)	(NA)	130	148	187	237	272	251	237	206	210
Library rate and fees	(NA)	(NA)	11	28	27	27	33	36	44	47	45
Government mail ¹²	86	199	484	611	626	678	745	761	918	913	901
International mail ¹³	102	270	390	493	499	550	596	735	892	874	859
Special services	184	236	251	417	439	508	518	823	823	866	868
Express mail	(X)	(X)	(X)	(X)	89	134	184	270	339	422	490
Mailgrams	(X)	(X)	(X)	(X)	11	15	15	16	16	14	13
Other ¹⁴	258	1,629	1,913	1,869	1,905	2,120	2,205	1,647	1,028	1,118	1,159

- Represents zero. NA Not available. X Not applicable. ¹ Net revenue after refunds of postage. Beginning 1970, includes operating reimbursements. ² Includes small amounts for Postal Savings System. ³ The U.S. Postal Service was established July 1, 1971. Revenues prior to that date are those of the Post Office Department. Revenues for 1970 have been restated to be consistent with subsequent years. See also footnote 1, table 924. ⁴ Includes controlled circulation publications. ⁵ Includes \$37.4 million appropriated to postal revenues for public services as provided by the Postal Policy Act of 1958. ⁶ Interest expense on loans exceeded interest income received from investments. ⁷ See footnote 5, table 924. ⁸ Items otherwise qualified as 1st-class or airmail that exceed 12 ounces and 8 ounces, respectively. ⁹ Includes mail paid at other than bulk rates. Publishers' mail includes printed publications periodically issued and mailed at a known post office to paid subscribers. These include regular rate newspapers and magazines, and classroom and nonprofit rate publications. Outside-the-county publications are those mailed to destinations outside the county of publication. In addition, includes publications of at least 24 pages and containing at least 25 percent nonadvertising content issued quarterly or more frequently for mainly free distribution. This latter group, formerly known as "controlled circulation publications" was discontinued as a separate class of mail in March 1982. ¹⁰ Items less than 16 ounces in weight not mailed at either 1st- or 2d-class rates. ¹¹ Items not mailed at 1st-, 2d-, or 3d-class rates, except government and international mail. May include parcel post, catalogs weighing 16 ounces or more, books, films, and records. ¹² Penalty and franked mail. ¹³ Mail from U.S. to foreign countries paid at international mail rates. ¹⁴ Consists of unassignable revenues; includes domestic airmail until 1976.

No. 926. U.S. POSTAL SERVICE EMPLOYEES, BY TYPE: 1960 to 1984

[In thousands, except as indicated. As of June 30 except, beginning 1978, as of Sept. 30. Includes Puerto Rico, and all outlying areas except Canal Zone. See *Historical Statistics, Colonial Times to 1970*, series R 187, for total employees]

ITEM	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984
Total employees	563	741	702	656	663	667	670	675	679	702
Regular	409	549	559	526	534	536	544	547	547	561
Postmasters	35	30	30	28	28	29	29	29	28	28
Office supervisors and tech. personnel	27	37	37	37	36	36	37	38	39	43
Office clerks and mail handlers ¹	17	243	239	226	230	229	232	232	229	237
City carriers and vehicle drivers	110	165	187	156	160	160	164	165	166	171
Rural carriers	31	31	31	31	32	33	33	34	34	35
Other	34	42	55	47	48	49	49	49	51	47
Substitute (part-time)	154	193	143	130	129	130	126	128	132	141
Compensation and employee benefits (mil. dol.)	2,953	6,462	10,805	14,031	15,162	16,541	18,018	19,094	20,070	22,157
Avg. salary per employee, (dol.) ²	5,245	8,721	15,392	21,389	22,869	24,799	26,893	28,283	29,565	31,562
Pieces of mail per employee, average	113	115	127	148	151	159	164	169	178	187

¹ Includes mobile unit employees.

² Includes fringe benefits.

Source of tables 925 and 926: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 927. U.S. POSTAL SERVICE—VOLUME OF MAIL, BY CLASS: 1970 TO 1984

[In millions, except per capita. For years ending June 30 except, beginning 1980, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. For definition of classes of mail, see footnotes, table 925. See also *Historical Statistics, Colonial Times to 1970*, series R 172-186]

CLASS OF MAIL	PIECES OF MAIL					WEIGHT OF MAIL (lb.)				
	1970	1975	1980	1983	1984	1970	1975	1980	1983	1984
Total.....	84,882	89,266	106,311	119,381	131,545	13,281	12,025	12,958	14,644	16,022
Domestic.....	83,986	88,334	105,348	118,477	130,650	13,055	11,824	12,742	14,414	15,790
1st class and airmail ¹	50,174	52,482	60,332	64,320	68,507	1,636	1,746	2,213	2,451	2,657
Priority mail.....	185	207	248	271	293	371	440	591	588	656
2d class ²	9,914	9,713	10,221	9,220	9,522	3,641	3,024	3,478	3,526	3,852
3d class.....	19,974	21,867	30,381	40,735	48,249	2,032	2,283	3,240	5,062	5,787
4th class.....	977	801	633	568	599	4,786	3,754	2,661	2,248	2,289
Penalty.....	2,544	2,928	2,992	2,775	2,523	540	527	503	487	500
Franked and free for blind.....	218	336	540	588	956	49	50	56	52	49
International.....	898	932	963	904	895	226	201	216	230	232
Per capita: ³										
Total, all domestic mail ⁴	412	415	475	508	556	64	56	57	62	67
1st class and airmail.....	246	247	272	276	275	8	8	10	11	11
2d class ²	48	45	45	39	40	18	14	15	15	16
3d class.....	98	103	137	175	205	10	11	15	22	25
4th class.....	5	4	3	2	3	23	18	12	10	10

¹ Beginning 1980, includes express mail established as a class of mail on October 9, 1977, and mailgrams. ² See footnote 9, table 925. ³ Based on estimated total population as of Jan. 1, including Armed Forces abroad. ⁴ Includes types of mail not shown separately.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 928. U.S. POSTAL SERVICE RATES FOR LETTERS AND POST CARDS: 1958 TO 1985

[See also *Historical Statistics, Colonial Times to 1970*, series R 188-191]

DATE OF RATE CHANGE	SURFACE MAIL				Domestic air-mail letters ¹	DATE OF RATE CHANGE	SURFACE MAIL				Domestic air-mail letters	Express mail ²
	Letters			Postal and post cards			Letters			Postal and post cards		
	Each ounce	First ounce	Each added ounce				Each ounce	First ounce	Each added ounce			
1958 (Aug. 1).....	4¢	(x)	(x)	3¢	7¢	1975 (Sept. 14).....	(x)	10¢	9¢	7¢	(x)	(x)
1963 (Jan. 7).....	5¢	(x)	(x)	4¢	8¢	1975 (Dec. 31).....	^a (x)	^a 13¢	^a 11¢	^a 9¢	(^a)	(x)
1968 (Jan. 7).....	6¢	(x)	(x)	5¢	10¢	1978 (May 29).....	(x)	15¢	13¢	10¢	(^b)	(x)
1971 (May 16).....	8¢	(x)	(x)	6¢	11¢	1981 (Mar. 22).....	(x)	18¢	17¢	12¢	(^b)	(x)
1974 (Mar. 2).....	10¢	(x)	(x)	8¢	13¢	1981 (Nov. 1).....	(x)	20¢	17¢	13¢	(^b)	\$9.35
						1985 (Feb. 17).....	(x)	22¢	17¢	14¢	(^b)	\$10.75

X Not applicable. ¹ Each ounce, except as noted. ² Post office to addressee rates. Rates shown are for weights up to 2 pounds, all zones. Beginning Feb. 17, 1985, for weights between 2 and 5 lbs, \$12.85 is charged. Prior to Nov. 1, 1981, rate varied by weight and distances. Over 5 pounds still varies by distance. ³ As of October 11, 1975, surface mail service upgraded to level of airmail. ⁴ 17¢ for first ounce; 15¢ for each added ounce. ⁵ As of May 1, 1977, domestic airmail service, as a separate class of mail, was discontinued.

Source: U.S. Postal Service, "United States Domestic Postage Rates: Recent History," and unpublished data.

No. 929. INTERNATIONAL AIR MAIL RATES FROM THE U.S.: 1961 TO 1985

[Excludes Canada and Mexico]

DATE OF RATE CHANGE	ZONE 1 ¹		ZONE 2 ²		ZONE 3 ³		Postal and post cards	Aero-grammes
	Each ½ ounce up to two ounces	Each added ½ ounce	Each ½ ounce up to two ounces	Each added ½ ounce	Each ½ ounce up to two ounces	Each added ½ ounce		
July 1, 1961.....	.13	.13	.15	.15	.25	.25	.11	.11
May 1, 1967.....	.15	.15	.20	.20	.25	.25	.13	.13
July 1, 1971.....	.17	.17	.21	.21	.21	.21	.13	.13
Mar. 2, 1974.....	.21	.17	.26	.21	.26	.21	.18	.18
Jan. 3, 1976.....	.25	.21	.31	.26	.31	.26	.21	.22
Jan. 1, 1981.....	.35	.30	.40	.35	.40	.35	.28	.30
Feb. 17, 1985.....	.39	.33	.44	.39	.44	.39	.33	.36

¹ Caribbean, Central and South America. The airmail letter rate to South America, 1961 to 1967, was the same as that to Europe. Beginning January 3, 1976, the airmail letter rate to all South American countries except Colombia and Venezuela is the same as Europe; Colombia and Venezuela are included in the first zone. ² Europe and Mediterranean Africa. ³ Rest of world. ⁴ Up to 32 oz.; 30 cents per additional ounce over 32. ⁵ Up to 32 oz.; 35 cents per additional ounce over 32. ⁶ Up to 32 oz.; 33 cents per additional ounce over 32. ⁷ Up to 32 oz.; 39 cents per additional ounce over 32.

Source: U.S. Postal Service, unpublished data.

No. 930. UTILIZATION OF SELECTED MEDIA: 1950 TO 1985

ITEM	Unit	1950	1960	1965	1970	1975	1980	1981	1982	1983	1984	1985
Households with —												
Telephone service ¹	Percent	62	79	85	91	93	96	97	(NA)	(NA)	(NA)	(NA)
Radio sets ²	Percent	92.6	98.3	98.6	98.6	98.6	98.0	98.0	99.0	99.0	99.0	99.0
Average number of sets	Number	2.1	3.7	4.1	5.1	5.6	5.5	5.5	5.5	5.5	5.5	5.5
Television sets ³	Million	3.9	45.8	52.7	58.5	68.5	76.3	79.9	81.5	83.3	83.8	84.9
Television sets ⁴	Percent	9	87	93	95	97	98	98	98	98	98	98
Color set households	Millions	—	3	2.6	20.9	46.9	63.4	66.3	71.4	73.9	75.8	77.7
Average viewing per day ⁵	Hours	4.6	5.1	5.5	5.9	6.1	6.6	6.8	6.8	7.0	7.1	(NA)
Average number of sets ⁶	Number	1.01	1.13	1.22	1.39	1.54	1.68	1.70	1.75	1.79	1.78	1.83
Commercial radio stations: ²												
AM	Number	2,232	3,539	4,034	4,323	4,463	4,589	4,634	4,668	4,733	4,754	(NA)
FM	Number	676	815	1,408	2,196	2,767	3,282	3,349	3,380	3,527	3,716	(NA)
Television stations: ⁸ Total	Number	98	559	668	862	953	1,011	1,038	1,065	1,106	1,138	1,182
Commercial	Number	(NA)	515	569	677	706	734	756	777	813	841	883
Cable television: ⁹												
Systems	Number	170	640	1,325	2,490	3,506	4,225	4,375	4,825	5,600	6,200	6,600
Subscribers served	Millions	7.01	.65	1.3	4.5	9.8	15.5	18.3	21.0	25.0	30.0	32.0
Daily newspaper circulation: ⁹												
Number	Millions	53.8	58.9	60.4	62.1	60.7	62.2	61.4	62.5	62.6	63.1	(NA)
Per capita ⁹	Number	.354	.327	.312	.305	.282	.275	.268	.270	.268	.267	(NA)

— Represents zero. NA Not available. ¹ As of Dec. 31. Source: American Telephone and Telegraph Company, New York, NY, unpublished data. ² As of Dec. 31, except as noted. Source: Radio Advertising Bureau, New York, NY, *Radio Facts*, annual (copyright). Number of stations on the air compiled from Federal Communications Commission reports. ³ Except as noted, 1970–1975, as of Sept. of prior year; all other years as of Jan. of year shown. Source: Except as noted, 1950–1965, National Broadcasting Company, New York, NY, *Television*, annual (copyright). ⁴ 1970 and 1975, *Television*, annual (copyright). ⁵ Calendar year data. Source: A.C. Nielsen Company, Northbrook, IL (copyright). ⁶ 1970 and 1975, *Television*, annual (copyright). ⁷ As of Jan. 1. Source: Television Bureau of Advertising, Inc. New York, NY, *Trends in Television 1950 to Date*, March 1985. ⁸ As of Jan. 1. Source: *Television Digest*, Inc., Washington, DC, *Television and Cable Factbook*, annual (copyright). Number of television stations on the air. ⁹ Data for 1952. ¹⁰ As of Sept. 30, except 1950–1965, as of Oct. 1. Source: Editor & Publisher, Inc., New York, NY, *Editor & Publisher International Year Book*, annual (copyright). ¹¹ Per capita based on total resident population enumerated as of April 1, 1970 and 1980, and estimated as of July 1 for other years.

Source: Compiled from sources listed in footnotes.

No. 931. TELEPHONE AND TELEGRAPH SYSTEMS: 1950 TO 1983

[Covers principal carriers filing annual reports with Federal Communications Commission. See *Historical Statistics, Colonial Times to 1970*, series R 46–70 and R 75–88, for data on telegraph systems]

ITEM	Unit	1950	1960	1965	1970	1975	1979	1980	1981	1982	1983
Domestic telephone:¹											
Carriers	Number	71	52	54	56	82	61	59	60	61	62
Telephones ²	Million	39	66	82	105	130	153	157	158	151	(NA)
Miles of wire	Million	147	316	436	628	872	1,081	1,131	1,188	1,223	1,280
Gross book cost of plant	Bill. dol.	10.7	25.7	38.0	59.9	95.5	134.9	147.4	161.5	174.0	184.2
Depreciation reserves ³	Bill. dol.	3.0	5.6	8.1	13.2	18.8	24.9	26.5	30.0	34.0	39.7
Ratio to book cost	Percent	27.8	21.7	21.4	22.1	19.7	18.5	18.0	18.8	19.6	21.5
Capital stock and premiums	Bill. dol.	3.8	10.7	14.9	16.4	21.6	28.8	31.3	34.5	38.8	43.4
Operating revenues	Bill. dol.	3.4	8.4	11.8	18.2	31.3	49.8	55.8	63.7	70.7	75.0
Operating expenses ⁴	Bill. dol.	2.5	5.0	7.1	11.7	20.2	33.0	37.3	42.8	49.1	50.9
Net operating income ⁵	Bill. dol.	.5	1.4	2.1	3.1	5.6	8.9	10.0	11.4	11.4	12.4
Net income	Bill. dol.	.4	1.3	1.9	2.3	3.6	6.0	6.6	7.5	7.3	7.6
Employees	1,000	565	627	655	839	840	928	938	945	909	959
Compensation of employees	Bill. dol.	1.8	3.4	4.3	7.0	11.7	18.4	20.2	22.2	24.8	25.1
Overseas telephone:											
Number of overseas calls	Million	7	33	7.5	23.4	62.2	168.3	199.6	265.5	310.8	369.5
Revenue from overseas calls	Mill. dol.	9	16	101	252	562	1,106	1,535	1,654	1,461	1,697
Ocean cable systems	Number	1	5	13	17	21	22	24	24	24	26
Communications satellites ⁶	Number	—	—	1	4	5	5	5	5	6	6
Domestic telegraph:											
Carriers	Number	1	1	1	1	1	1	1	1	1	1
Revenue messages transmitted	Million	179	124	94	70	42	55	55	56	50	42
Message revenues ⁷	Mill. dol.	152	190	192	234	197	271	296	320	320	316
Total operating revenues	Mill. dol.	178	262	306	402	505	636	697	779	809	722
Operating revenue deductions	Mill. dol.	167	247	282	368	435	561	603	669	728	654
Operating income ⁸	Mill. dol.	9	11	24	34	70	75	94	110	84	68
Teletypewriter messages	Million	15	33	47	46	54	59	68	63	(NA)	(NA)
Overseas telegraph:⁹											
Carriers	Number	11	9	6	6	6	7	7	7	7	6
Revenue messages transmitted	Million	23	28	29	32	26	21	20	18	15	11
Message revenues ⁷	Mill. dol.	42	71	78	124	217	355	380	405	411	395
Total operating revenues	Mill. dol.	50	87	107	194	316	497	535	578	613	616
Operating revenue deductions	Mill. dol.	45	77	87	156	245	362	405	468	532	550
Operating income ⁸	Mill. dol.	4	6	14	26	48	85	79	70	58	47
Return on investment:¹⁰											
Telephone	Percent	6.1	7.3	7.3	7.1	7.6	8.5	8.7	9.0	8.4	8.7
Domestic telegraph	Percent	5.1	5.0	5.6	5.0	6.1	5.5	6.6	7.4	5.3	3.9
Overseas telegraph	Percent	7.3	7.2	11.0	10.6	12.0	17.9	15.9	12.5	9.1	6.8

— Represents zero. NA Not available. ¹ Includes Puerto Rico and, beginning 1965, Virgin Islands. Excludes intercompany duplications. Gross operating revenues of carriers reporting since 1970 estimated at 90 percent of all carriers. ² Includes company, service, and private. ³ Includes amortization reserves. ⁴ Excludes taxes. ⁵ After tax deductions. ⁶ Excludes contingency and related satellites. ⁷ Includes telex service; for domestic telegraph, excludes TWX. ⁸ After Federal income taxes. ⁹ Beginning 1965, excludes South American and most Caribbean operations of All America Cables and Radio, Inc. ¹⁰ Ratio of net operating income (after taxes) to average net book cost of communications plant.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual, and unpublished data.

No. 932. BELL TELEPHONE COMPANIES—SUMMARY: 1960 TO 1983

[As of Dec. 31 or for calendar year, as applicable. Comprises American Telephone and Telegraph Company and its principal telephone subsidiaries, plus Southern New England and Cincinnati Bell Telephone Companies. See also *Historical Statistics, Colonial Times to 1970*, series R 17-30]

ITEM	Unit	1960	1970	1975	1977	1978	1979	1980	1981	1982	1983
Central offices ¹	1,000	11.2	15.1	17.2	17.8	18.1	18.7	19.2	19.7	20.2	20.8
Miles of—											
Wire	Million	308	602	832	910	982	1,018	1,068	1,113	1,152	1,191
Coaxial tube	1,000	97	287	333	337	331	332	334	330	334	326
Telephone grade carrier channel ²	Million	76	414	845	715	758	854	979	1,084	1,145	(NA)
Microwave radio relay ³	1,000	298	1,181	1,369	1,407	1,402	1,402	1,470	1,708	1,546	(NA)
Book value of plant (cost)	Bil. dol.	24.7	56.2	89.2	103.6	113.0	123.9	135.5	148.5	159.7	167.8
Depreciation reserves ⁴	Bil. dol.	5.4	12.6	17.6	19.9	21.2	22.6	24.0	27.2	30.8	35.5
Operating revenues ⁵	Bil. dol.	8.1	17.4	29.6	37.3	42.0	46.4	51.9	59.4	65.7	69.3
Local exchange	Bil. dol.	4.7	8.7	14.4	17.5	19.2	20.8	23.0	26.3	29.6	31.0
Toll	Bil. dol.	3.1	8.0	14.2	18.5	21.2	23.8	26.7	30.3	33.9	35.4
Operating expenses ⁶	Bil. dol.	5.6	12.9	22.2	27.7	31.0	34.9	39.3	45.0	51.4	47.2
Net income	Bil. dol.	1.3	2.3	3.3	4.7	5.6	5.6	6.1	6.9	6.6	6.8
Dividends declared ⁷	Bil. dol.	.8	1.5	2.2	2.9	3.3	3.8	4.0	4.5	4.9	5.8
Net income ⁸	Bil. dol.	1.2	2.2	2.9	4.3	5.1	5.5	5.9	6.7	6.4	6.4
Average common equity	Bil. dol.	12.1	23.9	29.6	35.3	39.0	42.6	46.7	52.1	57.5	⁹ 65.3
Return to average common equity	Ratio	10.0	9.2	9.7	12.2	13.1	12.9	12.7	12.9	12.2	⁹ 8.6
Employees, number	1,000	595	793	789	785	823	855	868	874	840	788
Wages and salaries	Bil. dol.	3.3	6.6	11.1	13.4	15.1	17.3	19.3	21.5	23.2	23.4

NA Not available. ¹ 1960 not fully comparable with later years. ² Message circuits added to existing wire mileage, but not requiring additional wire. Also includes microwave radio. ³ Broadband, 1-way channel. ⁴ Includes amortization reserves. ⁵ Includes miscellaneous and uncollectible, not shown separately. ⁶ Includes operating taxes other than Federal income tax. ⁷ Excludes intercompany dividends. ⁸ Beginning 1975, applicable to ATT common (excludes preferred dividend requirement). ⁹ Before extraordinary charge due to divestiture.

Source: American Telephone and Telegraph Company, New York, NY, unpublished data compiled from reports of Bell System and Southern New England and Cincinnati Bell Companies.

No. 933. TELEPHONE COMPANIES—SUMMARY: 1970 TO 1984

[As of Dec. 31 or calendar year, as applicable. See also *Historical Statistics, Colonial Times to 1970*, series R 31-45]

ITEM	Unit	INDEPENDENT COMPANIES ¹							1984	
		1970	1975	1979	1980	1981	1982	1983	inde- pend- ent ¹	Total ²
All companies	Number	1,841	1,518	1,488	1,483	1,459	1,432	1,429	1,416	24
Telephones	1,000	20,312	26,823	33,226	34,665	35,341	(NA)	(NA)	(NA)	(NA)
Access lines	1,000	(NA)	16,855	20,078	20,908	21,429	21,872	22,331	23,020	91,329
Total telephone plant	Mil. dol.	12,390	21,200	31,844	35,300	38,298	41,500	44,500	45,850	147,929
Operating revenues	Mil. dol.	2,953	5,500	9,240	10,475	12,206	13,800	14,875	16,000	57,868
Average daily conversa- tions, total	1,000	109,279	146,000	183,000	192,000	201,100	201,800	209,200	210,000	889,220
Local calls	1,000	104,361	137,678	169,458	177,216	184,409	183,840	188,070	190,000	821,458
Toll calls	1,000	4,918	8,322	13,542	14,784	16,691	17,960	21,130	20,000	67,762
Reporting companies ³	Number	684	731	755	765	768	754	678	631	24
Telephones	1,000	19,182	25,548	32,511	33,748	34,593	(NA)	(NA)	(NA)	(NA)
Access lines	1,000	(NA)	(NA)	18,576	19,412	20,561	21,146	21,077	22,069	91,487
Telephone plant in service	Mil. dol.	11,175	19,520	29,379	32,491	35,986	38,847	40,463	42,093	144,058
Depreciation reserves	Mil. dol.	2,203	4,120	6,980	7,820	8,905	10,220	11,553	12,864	32,884
Operating revenues	Mil. dol.	2,791	5,294	9,073	10,177	11,860	13,445	14,309	15,403	57,868
Operating expenses ⁴	Mil. dol.	1,953	3,639	6,415	7,279	8,449	10,699	11,432	12,305	47,493
Net income	Mil. dol.	356	711	1,210	1,268	1,505	1,751	1,968	2,199	7,114
Common stock and surplus	Mil. dol.	3,733	6,181	8,719	9,623	10,641	11,396	12,060	12,775	50,366
Net income to common stock and surplus	Percent	9.5	11.5	13.9	13.2	14.2	15.4	16.3	17.2	14.1
Employees	1,000	142	152	187	189	192	186	175	167	559
Wages and salaries	Mil. dol.	1,001	1,737	3,015	3,373	3,775	4,069	4,223	4,428	17,683

NA Not available. ¹ Companies independent of the Bell System, prior to divestiture of January 1984. ² All telephone companies. ³ Comprises only companies submitting operating information to source cited below. ⁴ Excludes Federal income tax.

Source: United States Telephone Association, Washington, DC, *Statistics of the Telephone Industry*, annual. (Copyright.)

No. 934. REA AND RURAL TELEPHONE BANK PROGRAM—SUMMARY: 1960 TO 1984

ITEM	Unit	1960	1970	1975	1979	1980	1981	1982	1983	1984
Loans and guarantees approved, Dec. 31: ¹										
Borrowers	Number	727	862	921	981	990	1,010	1,028	1,037	1,035
REA amount	Mil. dol.	737	1,816	2,576	3,606	3,845	4,076	4,327	4,540	4,742
Guaranteed amount	Mil. dol.	-	-	237	392	418	553	626	672	701
Rural Telephone Bank amount	Mil. dol.	-	-	618	1,262	1,388	1,529	1,726	1,872	2,000
Route miles of line, ² Dec. 31	1,000	287	547	653	772	798	805	831	847	868
Subscribers, Dec. 31	1,000	1,142	2,335	3,045	4,073	4,262	4,375	4,546	4,629	4,747
Telephones in service	1,000	1,280	2,989	4,355	6,335	6,770	6,953	7,147	(NA)	(NA)
Total operating revenues	Mil. dol.	94	363	753	1,540	1,758	2,042	2,389	2,643	2,910
Total telephone plant	Mil. dol.	635	2,085	3,850	6,558	7,388	8,034	8,897	9,532	10,195
Employees	1,000	9.7	15.4	20.0	27.9	28.4	28.7	28.8	28.9	28.7

- Represents zero. NA Not available. ¹ Cumulative net loans (cancellations deducted). ² Line in service.

Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*, annual.

NO. 935. BROADCAST AND NONBROADCAST STATIONS AUTHORIZED AND OPERATORS LICENSED, BY CLASS: 1975 TO 1984

[1975 as of June 30; thereafter, as of Sept. 30, includes Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1970*, series R 140-148]

CLASS	1975	1980	1983	CLASS	1975	1980	1983
STATIONS AUTHORIZED (1,000)				STATIONS AUTHORIZED (number)			
Private radio services ¹	2,602.4	16,357.3	2,283.3	Mass media services ²	32,829	38,438	(x)
Amateur and disaster.....	276.8	389.9	413.2	Cable TV relay service ³	877	1,880	1,575
General mobile.....	3.5	20.2	33.0	Commercial AM.....	4,488	4,689	4,936
Aviation.....	184.4	231.6	245.3	Commercial TV.....	759	844	1,161
Aircraft.....	154.7	196.8	208.0	Educational TV.....	256	288	322
Aeronautical and fixed.....	7.4	9.5	10.4	TV translator.....	3,389	4,636	5,921
Civil air patrol.....	19.6	21.6	22.7	Auxiliary TV.....	3,032	5,844	7,235
Other.....	2.7	3.7	4.2	Experimental TV.....	3	5	9
Industrial.....	244.6	504.9	767.9	UHF signal booster.....	9	6	6
Power.....	17.5	23.1	31.4	Aural, studio-transmitter-link, intercity relay.....	1,008	2,144	7,282
Business.....	155.2	370.4	561.6	Commercial FM.....	2,847	3,390	4,090
Petroleum.....	11.8	17.9	23.5	Educational FM.....	850	1,158	1,348
Forest products.....	4.3	6.4	9.1	International.....	4	4	7
Special industrial.....	40.7	72.1	110.2	Remote pickup.....	14,959	12,796	7,120
Other.....	15.1	14.7	32.1	Instructional TV, fixed.....	161	533	7,310
Land transportation.....	22.6	28.0	35.8	FM translator and boosters.....			1,435
Railroad.....	8.9	10.0	12.4	Common carrier services	27,357	27,565	(x)
Taxicab.....	3.7	4.8	6.1	Point-to-point microwave.....	8,133	9,164	10,600
Interurban property.....	2.2	3.1	4.1	Multipoint distribution serv.....	69	215	396
Other.....	7.9	9.9	13.2	Local TV transmission.....	64	66	74
Marine.....	250.7	398.3	497.5	Rural radio.....	1,218	1,692	7,175
Ship.....	243.6	386.6	483.1	Developmental radio.....	(NA)	93	7,135
Alaskan.....	2.1	2.6	2.7	Public mobile ⁴	17,783	11,451	7,15,170
Coastal and other.....	5.0	9.1	11.7	International control, fixed.....	25	7	7
Public safety.....	92.6	137.1	184.2	Satellite earth stations ⁵	48	4,873	7,7,013
Police.....	28.8	42.3	41.1	Satellites in orbit ¹⁰	17	37	7,7,43
Fire.....	14.0	20.6	34.9	Other.....	(NA)	56	190
Forestry conservation.....	6.2	7.8	8.8	Experimental services	1,349	1,513	634
Highway maintenance.....	7.7	9.7	11.9	RADIO OPERATORS (1,000)			
Special emergency.....	12.4	22.4	35.5	Total	4,222	5,154	4,609
Other.....	23.5	34.2	52.0	Commercial.....	3,965	4,764	4,195
Operational fixed services ⁶	(NA)	18.0	20.5	Amateur.....	257	390	413

NA Not available. X Not applicable. ¹ Each license, construction permit, or combination construction permit and license is counted as one station; therefore, a station might include a transmitter and many mobile units. 1975 and 1980 include citizens band radios, no longer licensed. ² Includes 89,096 stations for which a breakdown by class is not available. ³ Includes land mobile above 470 MHz (95,988 in 1984) not shown separately. ⁴ Includes microwave operations. Prior to 1980, data not separable from other class categories. ⁵ Stations licensed or holding construction permits. ⁶ Licensed and operating cable systems. ⁷ 1982 data. Data no longer collected. ⁸ Beginning 1980, station count excludes individual land mobile units, which are no longer individually licensed. ⁹ Includes INTELSAT, INMARSAT and domestic satellite systems. ¹⁰ Includes retired and contingency satellites.

Source: U.S. Federal Communications Commission, *Annual Report*, and unpublished data.

NO. 936. PUBLIC TELEVISION STATIONS: 1966 TO 1984

[Based on a "typical" broadcast week through 1972; calendar year data for 1974 and 1976; fiscal year data thereafter. General programming is directed at the general community. Instructional programming is directed at students in the classroom or otherwise in the general context of formal education]

ITEM	1966	1968	1970	1972	1974	1976	1978	1980	1982	1984
Stations broadcasting.....	115	¹ 153	¹ 190	220	² 238	³ 253	272	281	291	303
Total weekly broadcast hours ...	5,688	1,853	12,217	15,587	18,321	22,096	26,064	27,643	30,337	32,293
General programs.....	3,248	4,671	7,697	7,904	10,668	14,329	17,929	19,508	21,418	23,280
Percent of total hours.....	57.5	54.7	63.0	50.7	59.3	64.8	68.8	69.6	70.6	72.0
Instructional programs ⁴	2,440	3,863	4,520	7,683	7,653	7,766	8,135	8,135	8,919	9,033
Average weekly broadcast hours per station.....	49.5	56.1	65.3	70.9	80.7	90.9	95.8	99.8	104.3	106.6
General programming.....	28.2	30.7	41.1	36.0	47.9	59.0	65.9	68.4	73.6	76.8
Instructional programming ⁴	21.2	25.4	24.2	34.9	32.8	31.9	29.9	30.4	30.7	29.8

¹ 152 stations reported in 1968 and 187 in 1970; details include data for reporting stations only. ² Includes data for 227 stations only, representing 147 primary broadcasters; does not include secondary broadcasters. ³ Includes data for 243 stations only, representing 151 primary broadcasters. ⁴ Beginning 1974, includes material from Children's Television Workshops.

Source: Through 1970, National Instructional Television Center, Bloomington, IN, *One Week of Educational Television, 1970* (copyright); 1972, Corporation for Public Broadcasting, *One Week of Public TV*, April 1972, and unpublished data; 1974-1984, Corporation for Public Broadcasting, *PTV Programming Content by Category Report Series*, and unpublished data.

NO. 937. PUBLIC BROADCASTING SYSTEMS—INCOME BY SOURCE: 1975 TO 1984

[In millions of dollars, except as indicated. Fiscal year data for income. Beginning 1978, includes nonbroadcast income. Stations as of Dec. 31]

NUMBER OF STATIONS AND INCOME SOURCE	1975	1978	1979	1980	1981	1982	1983	1984, prel.	PERCENT DISTRIBUTION		
									1975	1980	1984, prel.
Number of CPB-qualified public radio stations.....	169	199	210	217	238	255	266	275	(x)	(x)	(x)
Public television stations.....	260	280	281	290	293	299	300	304	(x)	(x)	(x)
Total income	364.8	552.3	603.5	704.9	788.9	845.2	899.2	971.0	100.0	100.0	100.0
Federal government.....	92.3	160.8	163.2	192.5	193.7	197.6	163.7	166.6	25.3	27.3	17.2
State and local government ¹	156.6	218.2	245.5	271.6	277.5	301.0	318.3	331.5	42.9	38.5	34.1
Subscribers and auction/marathon.....	42.3	75.2	86.1	102.3	130.8	162.5	196.4	214.8	11.6	14.5	22.1
Business and industry.....	25.1	49.0	57.9	72.4	86.8	100.5	119.8	142.9	6.9	10.3	14.7
Foundation.....	28.7	17.2	20.4	23.5	19.3	22.1	24.9	27.4	7.9	3.3	2.8
Other.....	19.8	31.9	30.4	42.6	60.8	61.5	76.0	87.8	5.4	6.0	9.1

X Not applicable. ¹ Includes income received from State colleges and universities, and, beginning 1979 from other tax supported colleges and universities.

Source: Corporation for Public Broadcasting, Washington, DC, *Public Broadcasting Income, Fiscal Year, 1984*, and unpublished data.

NO. 938. CABLE TELEVISION—SYSTEMS AND SUBSCRIBERS: 1952 TO 1985

[Subscribers in thousands, except percent]

YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	SUBSCRIBER SIZE-GROUP	Number of— ¹		Percent of— ¹	
							Sys- tems	Sub- scribers	Sys- tems	Sub- scribers
1952.....	70	14	1974.....	3,158	8,700	1985, total	*6,844	31,275	*100.00	100.00
1955.....	400	150	1975.....	3,506	9,800	50,000 and over.....	94	6,585	1.37	21.06
1960.....	640	650	1976.....	3,681	10,800	20,000–49,999.....	286	8,570	4.18	27.41
1965.....	1,325	1,275	1977.....	3,832	11,600	10,000–19,999.....	425	5,397	6.21	16.98
1967.....	1,770	2,100	1978.....	3,975	13,000	5,000–9,999.....	580	4,179	8.62	13.36
1968.....	2,000	2,800	1979.....	4,150	14,100	3,500–4,999.....	397	1,663	5.81	5.32
1969.....	2,260	3,600	1980.....	4,225	16,000	1,000–3,499.....	1,605	3,075	23.45	9.83
1970.....	2,490	4,500	1981.....	4,375	18,300	500–999.....	1,055	758	15.41	2.42
1971.....	2,639	5,300	1982.....	4,825	21,000	250–499.....	998	361	14.55	1.15
1972.....	2,841	6,800	1983.....	5,600	25,000	Less than 250.....	998	146	14.58	.47
1973.....	2,991	7,300	1984.....	6,200	30,000					

¹ As of April 1, 1985. ² Includes 398 systems not available by subscriber size-group.

Source: Television Digest, Inc., Washington, DC, *Television & Cable Factbook*, annual. (Copyright.)

NO. 939. CABLE AND PAY TV—SUMMARY, 1955 TO 1984, AND PROJECTIONS, 1985 AND 1990

[Cable TV for calendar year. Pay TV as of Dec. 31 of year shown]

YEAR	CABLE TV				PAY TV					
	Avg. basic sub- scribers (1,000)	Avg. month- ly basic rate (dol.)	Revenue ¹ (mil. dol.)		Units ² (1,000)		Monthly rate (dol.)		Pay cable units per 1,000	
			Total	Basic	Total	Pay cable	Total	Pay-cable	Home passed	Basic cable sub- scribers
1955.....	250	5.00	20	20	(x)	(x)	(x)	(x)	(x)	(x)
1960.....	750	5.00	50	50	(x)	(x)	(x)	(x)	(x)	(x)
1965.....	1,500	5.00	95	95	(x)	(x)	(x)	(x)	(x)	(x)
1970.....	5,100	5.50	345	345	(x)	(x)	(x)	(x)	(x)	(x)
1975.....	9,800	6.50	804	774	469	469	(x)	7.85	111	236
1976.....	11,000	6.75	972	901	1,021	978	(NA)	7.87	106	223
1977.....	12,200	7.00	1,163	1,034	1,733	1,642	8.12	7.92	122	253
1978.....	13,400	7.25	1,424	1,176	3,580	3,289	8.62	8.09	179	350
1979.....	15,000	7.50	1,814	1,362	5,409	5,732	9.37	8.44	223	413
1980.....	17,500	7.75	2,436	1,647	10,369	9,144	9.78	8.80	279	506
1981.....	21,500	7.95	3,460	2,091	17,521	15,450	10.13	9.02	376	698
1982.....	25,400	8.25	4,705	2,564	23,179	20,791	10.32	9.56	462	785
1983.....	29,450	8.74	6,042	3,144	27,386	25,418	10.92	10.26	473	843
1984.....	33,670	8.92	7,523	3,604	31,975	30,790	10.67	10.43	510	860
1985, proj.....	38,040	9.28	8,958	4,235	36,300	35,440	10.85	10.71	542	880
1990, proj.....	54,910	12.18	18,505	8,027	(NA)	61,430	11.82	11.82	755	1,100

NA Not available. X Not applicable. ¹ Includes installation revenue. ² Individual program services sold to subscribers.

Source: Paul Kagan Associates, Inc., Carmel, CA, *The Cable TV Financial Databook*, annual. (Copyright.)

**NO. 940. RADIO AND TELEVISION STATIONS OWNED BY NEWSPAPERS AND/OR MAGAZINES:
1961 TO 1984**

DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV
1961, Sept. 1.....	412	147	161	1973, Dec. 1.....	304	211	179	1980, Dec. 1.....	315	264	230
1965, Oct. 31.....	391	170	174	1974, Dec. 1.....	321	236	193	1981, Dec. 1.....	311	277	246
1968, Dec. 4.....	381	191	183	1975, Dec. 1.....	320	238	197	1982, Dec. 1.....	300	263	251
1969, Dec. 1.....	384	245	189	1976, Dec. 1.....	322	238	209	1983, Dec. 1.....	288	257	248
1971, Feb. 1.....	402	248	191	1977, Dec. 1.....	314	238	211	1984, Dec. 1.....	268	256	255
1971, Dec. 1.....	318	209	176	1978, Dec. 1.....	319	252	221				
1972, Dec. 1.....	325	171	178	1979, Dec. 1.....	318	257	226				

Source: Broadcasting Publications Inc., Washington, DC, *Broadcasting Cablecasting Yearbook*. (Copyright.)

NO. 941. RADIOS AND TELEVISION SETS—PRODUCTION AND IMPORTS, BY TYPE: 1965 TO 1984
(In thousands, except percent)

TYPE	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
RADIOS ¹												
Total	41,726	44,427	34,515	44,101	52,926	48,035	40,029	39,574	44,359	44,088	48,535	62,050
Percent FM/AM-FM	15.2	48.0	65.0	59.6	65.9	66.7	68.6	77.9	78.8	83.6	86.2	86.3
Table model.....	4,370	5,714	2,253	2,876	1,990	1,805	1,250	938	1,067	794	809	1,359
Percent FM/AM-FM	32.0	72.8	80.8	66.4	54.5	61.3	72.5	59.3	58.0	57.1	54.4	54.4
Clock model.....	5,448	4,874	6,641	7,353	11,447	11,498	9,354	9,445	9,762	8,438	12,120	15,570
Percent FM/AM-FM	16.0	53.8	89.1	85.8	89.4	92.3	93.4	97.6	97.9	96.3	96.4	99.1
Portable model.....	21,871	23,461	16,382	21,427	26,599	22,074	17,044	17,721	20,627	22,555	23,525	29,491
Percent FM/AM-FM	15.7	55.9	68.4	55.4	61.4	59.0	63.7	70.2	78.5	80.4	80.4	80.4
Auto model.....	10,037	10,378	9,239	12,445	12,890	12,668	12,381	11,470	12,883	12,306	12,081	15,630
Percent FM/AM-FM	6.3	13.8	37.7	49.7	56.0	57.7	56.1	77.5	79.8	84.7	87.5	88.3
TELEVISION SETS ²												
Total	11,028	9,483	10,637	14,131	15,431	17,407	16,619	18,532	18,479	16,406	19,681	22,384
Monochrome sets.....	8,382	4,852	4,418	5,937	6,090	6,733	6,576	6,729	6,056	4,922	5,647	5,194
Table and portable.....	6,956	4,463	4,354	5,863	6,033	6,706	6,559	6,714	6,058	4,922	5,647	5,194
Console.....	1,318	389	64	74	57	27	17	15	(³)	(³)	(³)	(³)
Color sets ⁴	2,646	4,631	6,219	8,194	9,341	10,674	10,043	11,803	12,423	11,484	14,034	17,190
Table and portable.....	(NA)	2,495	4,186	5,785	6,722	7,913	7,727	9,373	9,851	9,102	11,221	13,977
Console.....	(NA)	2,018	2,008	2,377	2,591	2,739	2,295	2,430	2,572	2,382	2,813	3,213

NA Not available. ¹Products of U.S. manufacturers and imports by distributors or dealers for resale. Beginning 1975, also includes products purchased by U.S. manufacturers. ²Products produced or purchased by U.S. manufacturers for sale with their brand name. Beginning 1975, also includes products imported directly by distributors or dealers for resale. ³For 1965, includes combinations; beginning 1981, consoles included in table and portable. ⁴1965-1979 total includes combinations; beginning 1980, included with consoles.

Sources: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual. (Copyright.)

NO. 942. PUBLISHING INDUSTRY—SUMMARY: 1972 TO 1982

(In millions of dollars, except as noted, Based on the censuses of manufactures; for details, see Appendix III)

ITEM	NEWSPAPERS			PERIODICALS			BOOKS		
	1972	1977	1982	1972	1977	1982	1972	1977	1982
Establishments, number.....	8,116	8,867	8,846	2,534	2,994	3,328	1,205	1,744	2,130
With 20 or more employees.....	2,119	2,147	2,555	452	525	690	307	346	420
Employees ¹ (1,000).....	349	350	402	87	102	94	57	60	67
Payroll.....	3,168	4,306	6,555	709	1,020	1,986	558	830	1,327
Value of receipts.....	8,263	13,056	21,276	3,511	6,057	11,478	2,857	4,794	7,740
Cost of materials.....	2,044	3,539	8,006	1,404	2,289	4,568	960	1,544	2,420
Value added by manufacture ²	6,220	9,519	15,275	2,110	3,763	6,911	1,936	3,262	5,292
New capital expenditures.....	360	478	1,029	57	79	195	48	80	174
Fixed assets, gross value.....	3,339	5,028	8,682	588	725	1,362	512	680	1,106
Inventories, yearend.....	153	382	755	197	350	724	629	992	1,380

¹Represents the average number of production workers plus the number of other employees in mid-March. ²Derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments. This result is then adjusted by the addition of value added by merchandising operations, plus the net change in finished goods and work-in-process inventories between the beginning and the end of the year.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*, Industry Reports, series MC77-I-27A, and *Census of Manufactures, 1982*, series MC82-I-27A.

NO. 943. NEWSPAPERS AND PERIODICALS: 1950 TO 1985

[Prior to 1960, excludes Alaska and Hawaii. Data refer to year of compilation of the Directory cited as the source, i.e., generally to year preceding year shown. See also *Historical Statistics, Colonial Times to 1970*, series R 232-243]

ITEM	1950	1960	1965	1970	1975	1980	1981	1982	1983	1984	1985
Newspapers¹.....	12,115	11,315	11,383	11,383	11,400	9,620	9,676	9,183	9,205	9,151	9,134
Semiweekly.....	337	324	357	423	506	537	508	498	508	525	517
Weekly.....	9,794	8,979	8,889	8,903	8,824	7,159	7,238	6,806	6,855	6,798	6,811
Daily.....	1,894	1,854	1,843	1,838	1,819	1,744	1,747	1,740	1,735	1,711	1,701
Periodicals¹.....	3,960	8,422	8,990	9,573	9,657	10,236	10,873	10,688	10,952	10,809	11,090
Weekly.....	1,443	1,580	1,716	1,856	1,918	1,716	1,921	1,672	1,626	1,376	1,367
Semi-monthly ²	416	527	550	589	537	645	667	689	724	658	801
Monthly.....	3,694	4,113	4,195	4,314	4,087	3,985	4,199	4,078	4,108	4,096	4,088
Bi-monthly.....	436	743	876	957	1,009	1,114	1,193	1,237	1,307	1,348	1,361
Quarterly.....	604	895	1,030	1,108	1,093	1,444	1,484	1,554	1,627	1,711	1,759

¹ Includes other not shown separately.

² Includes fortnightly (every two weeks).

Source: IMS Press, Fort Washington, PA, *The 1985 IMS/Ayer Directory of Publications*, annual. (Copyright.)

NO. 944. NUMBER AND CIRCULATION OF DAILY AND SUNDAY NEWSPAPERS: 1950 TO 1984

[Prior to 1960, excludes Alaska and Hawaii. Number of newspapers as of the following dates: 1950 and 1960, Oct. 1; 1965, Jan. 1; 1970-1983, Feb. 1 of the following year. Circulation figures as of Sept. 30, except 1950-1965 as of Oct. 1. For English language newspapers only. See *Historical Statistics, Colonial Times to 1970*, series R 224-231]

ITEM	1950	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984
NUMBER OF NEWSPAPERS												
Daily: Total ¹	1,772	1,763	1,751	1,748	1,756	1,756	1,763	1,745	1,730	1,711	1,701	1,688
Morning.....	322	312	320	334	339	355	382	387	408	434	446	458
Evening.....	1,450	1,459	1,444	1,429	1,436	1,419	1,405	1,388	1,352	1,310	1,284	1,257
Sunday.....	549	563	562	586	639	696	720	736	755	768	772	783
CIRCULATION (mil.)												
Daily: Total ¹	53.8	58.9	60.4	62.1	60.7	62.0	62.2	62.2	61.4	62.5	62.6	63.1
Morning.....	21.3	24.0	24.1	25.9	25.5	27.7	28.6	29.4	30.6	32.2	33.8	35.4
Evening.....	32.6	34.9	36.3	36.2	35.2	34.3	33.6	32.8	30.9	29.3	28.8	27.7
Sunday.....	46.6	47.7	48.6	49.2	51.1	54.0	54.4	54.7	55.2	56.3	56.7	57.5

¹ Beginning 1960, all-day newspapers are counted in both morning and evening columns but only once in total. Circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

NO. 945. NUMBER AND CIRCULATION OF DAILY NEWSPAPERS, BY POPULATION-SIZE CLASS OF CITY: 1960 TO 1984

[Number of newspapers for 1960 as of Oct. 1; thereafter, as of Feb. 1 of the following year. Circulation as of Sept. 30, except 1960 as of Oct. 1. For English language newspapers only. See table 18 for number of cities by population size]

TYPE OF DAILY AND POPULATION-SIZE CLASS	NUMBER ¹						NET PAID CIRCULATION ¹ (1,000)					
	1960	1970	1975	1980	1983	1984	1960	1970	1975	1980	1983	1984
Morning dailies, total.....	312	334	339	387	446	458	24,059	25,934	25,491	29,413	33,842	35,424
In cities of—												
1,000,001 or more.....	16	15	14	20	21	14	7,935	7,667	7,159	8,795	9,662	4,641
500,001 to 1,000,000.....	22	26	25	27	23	24	4,638	5,747	5,581	5,705	5,739	6,609
100,001 to 500,000.....	85	91	89	99	117	128	7,613	8,169	7,836	8,996	11,386	16,876
50,001 to 100,000.....	64	65	69	75	81	83	2,278	2,220	2,619	2,973	3,264	3,402
25,001 to 50,000.....	54	59	67	64	72	74	849	1,317	1,422	1,701	1,910	1,994
Less than 25,000.....	71	78	75	102	132	135	646	814	874	1,243	1,879	1,697
Evening dailies, total.....	1,459	1,429	1,436	1,388	1,284	1,257	34,911	36,231	35,166	32,788	28,802	27,657
In cities of—												
1,000,001 or more.....	17	12	12	11	9	7	5,021	4,716	4,156	2,984	2,334	1,794
500,001 to 1,000,000.....	26	24	24	23	15	15	5,375	4,807	4,573	4,101	2,227	1,949
100,001 to 500,000.....	116	129	127	123	114	112	9,676	10,034	8,918	8,178	7,817	7,857
50,001 to 100,000.....	158	178	175	156	141	133	4,501	5,221	5,379	4,896	4,400	4,177
25,001 to 50,000.....	256	250	248	246	243	236	4,345	4,766	4,898	5,106	4,916	4,789
Less than 25,000.....	886	836	850	829	752	754	5,993	6,687	7,242	7,523	7,105	7,087

¹ All-day newspapers are counted in both morning and evening columns; circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

NO. 946. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, BY STATE: 1984

[Number of newspapers as of Feb. 1 of the following year. Circulation figures as of Sept. 30. For English language newspapers only]

STATE	DAILY			SUNDAY		STATE	DAILY			SUNDAY	
	Number	Circulation ¹		Number	Net paid circulation (1,000)		Number	Circulation ¹		Number	Net paid circulation (1,000)
		Net paid (1,000)	Per capita ²					Net paid (1,000)	Per capita ²		
Total	1,688	63,082	.267	783	57,574	Missouri	48	1,452	.290	18	1,204
Alabama.....	27	737	.185	19	717	Montana.....	11	199	.242	8	205
Alaska.....	6	132	.264	3	131	Nebraska.....	19	481	.300	7	437
Arizona.....	18	679	.222	11	675	Nevada.....	7	234	.257	4	249
Arkansas.....	32	491	.209	16	509	New Hampshire.....	9	209	.214	3	105
California.....	118	6,012	.235	58	5,858	New Jersey.....	26	1,699	.226	17	1,793
Colorado.....	27	949	.299	10	1,048	New Mexico.....	20	289	.203	13	284
Connecticut.....	24	903	.266	11	801	New York.....	75	8,018	.452	33	5,760
Delaware.....	3	154	.251	2	155	North Carolina.....	55	1,422	.231	27	1,254
District of Columbia.....	3	2,052	.329	1	1,033	North Dakota.....	10	194	.283	5	149
Florida.....	51	2,825	.257	34	3,106	Ohio.....	92	3,010	.280	30	2,709
Georgia.....	36	1,063	.182	15	1,112	Oklahoma.....	52	818	.248	44	905
Hawaii.....	7	258	.248	5	249	Oregon.....	20	626	.234	10	653
Idaho.....	13	215	.215	7	191	Pennsylvania.....	95	3,424	.288	21	2,899
Illinois.....	73	2,764	.240	24	2,774	Rhode Island.....	7	308	.320	2	264
Indiana.....	75	1,601	.291	18	1,243	South Carolina.....	17	611	.185	9	568
Iowa.....	38	798	.274	10	762	South Dakota.....	12	166	.235	4	127
Kansas.....	46	595	.244	18	501	Tennessee.....	29	1,000	.212	16	1,041
Kentucky.....	25	734	.197	12	638	Texas.....	113	3,668	.229	98	4,299
Louisiana.....	26	802	.180	17	860	Utah.....	6	283	.171	6	312
Maine.....	9	287	.248	3	258	Vermont.....	8	119	.225	3	81
Maryland.....	16	746	.172	5	652	Virginia.....	38	1,187	.211	15	815
Massachusetts.....	45	2,129	.367	10	1,677	Washington.....	28	1,131	.260	17	1,095
Michigan.....	52	2,524	.278	15	2,533	West Virginia.....	24	452	.232	10	400
Minnesota.....	26	934	.224	12	1,022	Wisconsin.....	35	1,191	.250	11	976
Mississippi.....	24	409	.157	12	331	Wyoming.....	10	101	.198	4	76

¹ Circulation figures based on the principal community served by a newspaper which is not necessarily the same location as the publisher's office. ² Per capita based on total resident population estimated as of July 1, 1984.

Source: Editor & Publisher Co., Inc., New York, NY, *Editor & Publisher International Year Book*, annual (copyright).

NO. 947. COPYRIGHT REGISTRATION, BY SUBJECT MATTER: 1980 TO 1984

[In thousands. For years ending Sept. 30. Comprises claims to copyright registered for both U.S. and foreign works. See also *Historical Statistics, Colonial Times to 1970*, series W 82-95]

SUBJECT MATTER OF COPYRIGHT	1980	1983	1984	SUBJECT MATTER OF COPYRIGHT	1980	1983	1984
Total	464.7	488.2	502.7	Musical works.....	120.2	127.8	
Monographs ¹	119.2	129.3	147.2	Dramatic works, including any accom-			
Machine readable works.....	1.9	8.0		panying music.....	8.0	9.5	140.2
Serials.....	117.9	106.1	113.6	Choreography and pantomimes.....	(2)	.1	
Sound recordings.....	12.8	21.7	21.6	Motion pictures and filmstrips.....	8.5	9.1	
Renewals.....	33.0	39.1	37.3	Works of the visual arts ²	42.8	39.5	42.8

¹ Z Less than 50. ² Includes computer software. ³ Two-dimensional works of fine and graphic art, including prints and art reproductions; sculptural works; technical drawings and models; photographs; commercial prints and labels; works of applied arts, cartographic works and multimedia works.

Source: The Library of Congress, *Annual Report*.

NO. 948. ADVERTISING—ESTIMATED EXPENDITURES: 1950 TO 1984

[In millions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series T 444-446]

YEAR	Total	National	Local	YEAR	Total	National	Local	YEAR	Total	National	Local
1950.....	5,700	3,280	2,440	1972.....	23,210	12,980	10,230	1978.....	43,330	23,720	19,610
1955.....	9,150	5,380	3,770	1973.....	24,980	13,700	11,280	1979.....	48,780	26,895	22,085
1960.....	11,960	7,305	4,655	1974.....	26,820	14,700	11,920	1980.....	53,550	29,815	23,735
1965.....	15,250	9,340	5,910	1975.....	27,900	15,200	12,700	1981.....	60,430	33,890	26,540
1970.....	19,550	11,350	8,200	1976.....	33,300	16,355	14,945	1982.....	66,580	37,785	28,795
1971.....	20,700	11,755	8,945	1977.....	37,440	20,595	16,845	1983.....	75,850	42,525	33,325
								1984.....	87,820	49,690	38,130

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright).

NO. 949. ADVERTISING—INDEXES OF NATIONAL ADVERTISING EXPENDITURES, BY MEDIUM: 1960 TO 1984

[1967=100. Based on the average monthly expenditure for those major media which give national coverage. See also *Historical Statistics, Colonial Times to 1970*, series T 472-484]

MEDIUM	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
General index	67	90	112	143	205	236	289	298	333	369	414	488
Network television.....	56	85	114	158	238	273	316	353	383	427	482	592
Spot television.....	53	90	125	164	223	261	291	330	378	441	485	585
Magazines.....	73	93	104	118	174	209	236	253	284	298	340	398
Weeklies.....	81	94	95	94	139	178	204	218	245	255	294	341
Women's.....	65	95	107	130	200	238	259	277	302	321	374	429
Monthlies.....	64	90	120	155	222	246	280	304	347	368	404	480
Newspapers.....	92	93	105	131	174	182	209	232	267	290	323	357

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. in *Advertising Age* (copyright).

NO. 950. ADVERTISING—ESTIMATED EXPENDITURES, BY MEDIUM: 1970 TO 1984

[In millions of dollars, except percent. See text, page 541 for a discussion of types of advertising. See also *Historical Statistics, Colonial Times to 1970*, series R 108-109, R 123-126, and T 444-471]

MEDIUM	EXPENDITURES								PERCENT			
	1970	1975	1979	1980	1981	1982	1983	1984, prel.	1970	1975	1980	1984, prel.
Total	19,550	27,900	48,780	53,550	60,430	66,580	75,550	87,820	100.0	100.0	100.0	100.0
National.....	11,350	15,200	26,695	29,815	33,890	37,785	42,525	49,690	58.1	54.5	55.7	56.6
Local.....	8,200	12,700	22,085	23,735	26,540	28,795	33,325	38,130	41.9	45.5	44.3	43.4
Newspapers.....	5,704	8,234	13,883	14,794	16,528	17,894	20,582	23,522	29.2	29.5	27.6	26.8
National.....	891	1,109	1,770	1,963	2,259	2,462	2,734	3,081	4.6	4.0	3.7	3.5
Local.....	4,813	7,125	12,093	12,831	14,269	15,424	17,848	20,441	24.6	25.5	24.0	23.3
Magazines.....	1,292	1,465	2,932	3,149	3,533	3,710	4,233	4,932	6.6	5.2	5.9	5.6
Weeklies.....	617	612	1,327	1,418	1,598	1,659	1,917	2,224	3.2	2.2	2.6	2.5
Women's.....	301	368	730	782	853	904	1,056	1,209	1.5	1.3	1.5	1.4
Monthlies.....	374	485	875	949	1,082	1,147	1,263	1,498	1.9	1.7	1.8	1.7
Farm publications.....	82	74	120	130	146	148	163	181	.3	.3	.2	.2
Television.....	3,596	5,263	10,154	11,474	12,847	14,706	16,789	19,900	18.4	18.9	21.4	22.7
Network.....	1,658	2,306	4,599	5,130	5,575	6,210	7,017	8,526	8.5	8.3	9.6	9.7
Spot.....	1,234	1,623	2,873	3,319	3,805	4,510	5,098	5,773	6.3	5.8	6.2	6.6
Cable (National).....	(NA)	(NA)	(NA)	50	105	195	303	466	(NA)	(NA)	.1	.5
Local.....	704	1,334	2,682	2,987	3,345	3,759	4,323	5,055	3.6	4.8	5.5	5.8
Cable (Local).....	(NA)	(NA)	(NA)	8	17	32	50	80	(NA)	(NA)	(z)	.1
Radio.....	1,308	1,980	3,310	3,702	4,230	4,670	5,210	5,813	6.7	7.1	6.9	6.6
Network.....	56	83	161	183	230	255	296	316	.3	.3	.3	.4
Spot.....	371	436	665	779	879	923	1,038	1,197	1.9	1.6	1.5	1.4
Local.....	881	1,461	2,484	2,740	3,121	3,492	3,876	4,300	4.5	5.2	5.1	4.9
Direct mail.....	2,768	4,124	6,653	7,596	8,944	10,319	11,795	13,800	14.1	14.8	14.2	15.7
Business papers.....	740	919	1,575	1,674	1,841	1,876	1,990	2,270	3.8	3.3	3.1	2.6
Outdoor.....	234	335	540	578	650	721	794	872	1.2	1.2	1.1	1.0
Miscellaneous.....	3,948	5,506	9,633	10,453	11,711	12,736	14,294	16,530	19.7	19.7	19.5	18.8

NA Not available. Z Less than .05.

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. in *Advertising Age* (copyright). Percentages derived by U.S. Bureau of the Census.

NO. 951. MAGAZINE ADVERTISING—EXPENDITURES, BY PRODUCT: 1975 TO 1984

[In millions of dollars, except percent. Space cost based on one-time rate; special rates used where applicable. Year-to-year data not strictly comparable, as a few minor publications are added or deleted]

TYPE OF PRODUCT	1975	1980	1981	1982	1983	1984	PERCENT DISTRIBUTION		
							1975	1980	1984
Expenditures	1,336	2,846	3,223	3,421	3,939	4,668	100.0	100.0	100.0
Apparel, footwear, and accessories.....	47	112	141	154	206	240	3.5	3.9	5.1
Automotive, incl. accessories and equipment.....	102	230	290	333	405	473	7.6	8.0	10.1
Beer, wine, and liquor.....	101	239	252	258	243	230	7.6	8.4	4.9
Computers, office equipment, stationery.....	29	79	103	141	194	321	2.1	2.8	6.9
Consumer services.....	102	190	206	233	329	411	7.8	6.7	8.8
Drugs and remedies.....	34	79	98	89	105	129	2.5	2.8	2.8
Food and food products.....	87	199	213	240	283	289	6.5	7.0	6.2
Household equipment and supplies.....	25	65	82	86	81	98	1.9	2.3	2.1
Household furnishings.....	31	73	83	81	94	94	2.3	2.0	2.0
Jewelry, optical goods, camera.....	34	79	89	80	95	107	2.5	2.8	2.3
Mail orders.....	(NA)	(NA)	(NA)	(NA)	(NA)	292	(NA)	(NA)	6.3
Publishing and media.....	66	146	149	156	182	159	4.9	5.1	3.4
Retail.....	(NA)	(NA)	(NA)	(NA)	(NA)	128	(NA)	(NA)	2.7
Smoking materials.....	144	290	314	358	398	423	10.8	10.2	9.1
Toiletries and toilet goods.....	108	206	230	241	279	334	7.9	7.2	7.2
Travel, hotels, and resorts.....	65	123	137	153	174	212	4.9	4.3	4.5
All other.....	363	736	844	838	891	728	27.2	25.9	15.6

NA Not available. ¹ Includes business services.

Source: Magazine Publishers Association, Inc., New York, NY, from data compiled by Publishers Information Bureau, Inc.

No. 952. TELEVISION—EXPENDITURES FOR NETWORK ADVERTISING: 1980 TO 1984

(In millions of dollars. See text, page 541 for a definition of network advertising)

TYPE OF PRODUCT	1980	1982	1983	1984	TYPE OF PRODUCT	1980	1982	1983	1984
Expenditures.....	5,147	6,232	7,042	8,555	Horticulture.....	15	18	20	29
Apparel, footwear, and accessories.....	131	160	199	237	Household equipment, supplies, and furnishings.....	225	239	238	266
Automotive.....	529	596	745	808	Insurance.....	74	73	97	109
Beer and wine.....	242	303	358	448	Investment brokers.....	20	26	46	66
Building material, equipment, fixtures.....	59	70	68	105	Jewelry and cameras ¹	119	151	143	140
Computers, office equipment, and stationery.....	57	129	260	374	Laundry soaps, cleansers, and polishes.....	306	322	353	367
Confectionery, soft drinks.....	281	300	307	393	Movies.....	103	110	133	167
Consumer services.....	178	157	213	369	Pet products.....	144	149	160	175
Dept. and discount stores.....	94	144	171	215	Proprietary medicines.....	430	529	575	670
Food and food products.....	844	995	1,064	1,365	Publishing and media.....	34	76	82	58
Freight and industrial development.....	7	24	50	53	Restaurants and drive-ins.....	132	170	213	352
Gas, lubricants, etc.....	71	55	42	56	Tobacco products and supplies.....	8	7	8	10
Home electronics equipment.....	50	164	158	79	Toiletries and toilet goods.....	765	887	921	978
					Toys and sporting goods.....	93	100	113	165
					Travel, hotels, and resorts.....	53	73	79	90
					All other.....	83	195	226	411

¹ Includes optical goods.

No. 953. TELEVISION—ESTIMATED TIME CHARGES FOR SPOT ADVERTISING: 1980 TO 1984

(In millions of dollars. Data represent activity in the top 75 markets monitored by Broadcast Advertisers Reports, Inc. (BAR), covering approximately 304 stations. See text, page 541 for a definition of types of advertising)

TYPE OF PRODUCT	1980	1982	1983	1984	TYPE OF PRODUCT	1980	1982	1983	1984
Estimated time charges.....	2,496	3,342	3,676	4,164	Home electronics equipment.....	73	108	120	76
Agriculture and farming.....	15	21	19	19	Horticulture.....	35	32	30	39
Apparel, footwear, and accessories.....	105	96	101	113	Household equipment, supplies, and furnishings.....	133	151	190	215
Automotive.....	228	361	412	563	Insurance.....	34	51	57	67
Beer and wine.....	156	205	200	204	Jewelry, optical goods, and cameras.....	55	53	54	70
Building material, equipment, and fixtures.....	47	53	55	56	Laundry soaps, polishes.....	111	157	186	144
Computers, office equipment, and stationery.....	15	52	84	63	Pet products.....	33	55	56	56
Confectionery, soft drinks.....	212	266	327	335	Proprietary medicines.....	93	107	133	148
Consumer services.....	63	140	173	222	Publishing and media.....	78	97	115	127
Food and food products.....	507	705	776	885	Tobacco products, suppliers.....	8	11	11	14
Freight and industrial development.....	5	41	32	21	Toiletries and toilet goods.....	223	222	242	263
Gasoline, lubricants, etc.....	50	90	87	104	Toys and sporting goods.....	104	120	101	141
					Travel, hotels, and resorts.....	76	121	139	163
					All other.....	17	27	16	36

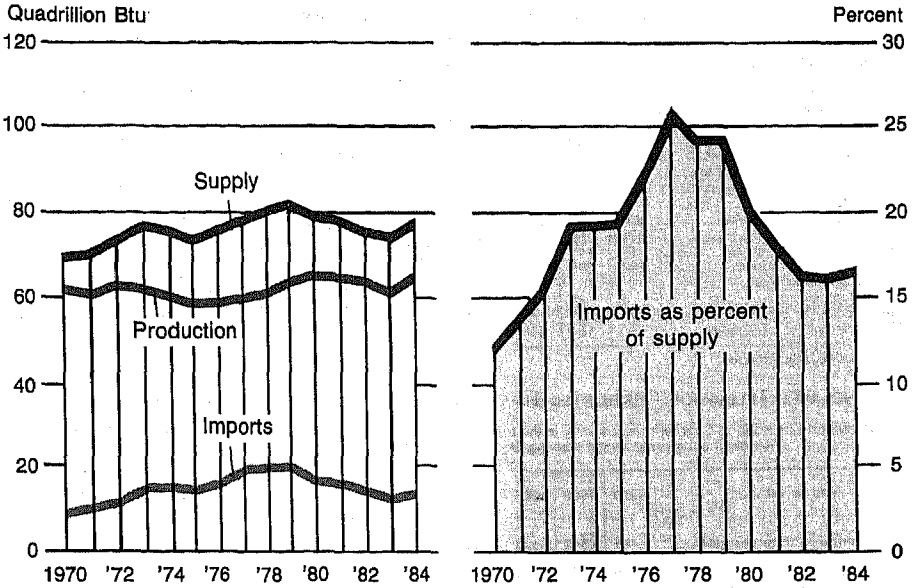
No. 954. TELEVISION—EXPENDITURES FOR RETAIL/LOCAL ADVERTISING: 1980 TO 1984

(In millions of dollars. See headnote, table 953)

TYPE OF PRODUCT	1980	1982	1983	1984	TYPE OF PRODUCT	1980	1982	1983	1984
Expenditures.....	1,983	2,578	2,979	3,485	Home building construction, building supplies.....	35	47	65	77
Amusements, entertainment.....	68	91	99	104	Hotels, resorts, U.S.....	18	37	42	58
Appliance stores, repair.....	38	50	75	89	Investment brokers.....	7	11	27	28
Auto repair, service stations.....	28	44	53	61	Jewelry stores.....	19	23	25	24
Auto supply, accessory stores.....	12	30	35	36	Legal services.....	5	11	18	28
Auto, truck dealers.....	99	121	173	257	Leisure time stores and services.....	42	75	82	84
Banks, S&L associations.....	141	155	166	198	Loan, mortgage companies.....	12	12	20	20
Builders, real estate.....	26	25	34	42	Mail order, catalog showrooms.....	13	18	21	22
Carpet, floor covering stores.....	24	26	34	36	Medical, dental services.....	13	28	41	62
Clothing stores.....	46	55	66	73	Movies.....	102	90	98	86
Department stores.....	131	141	164	168	Newspapers.....	15	19	22	29
Discount department stores.....	74	78	79	93	Optical services, supplies.....	14	13	17	19
Drug stores.....	26	45	55	57	Political.....	70	116	24	104
Education services.....	17	27	36	49	Radio, cable TV.....	69	120	127	129
Food stores, supermarkets.....	149	193	229	244	Rental services (non-auto).....	15	24	29	34
Furniture stores.....	111	113	144	165	Restaurants, drive-ins.....	288	406	488	578
Gas, electric, water companies.....	16	24	27	33	Shoe stores.....	27	28	32	38
Hardware stores.....	19	23	23	23	Shopping centers, ass'ns.....	13	15	18	20
Health clubs, reducing salons.....	21	28	29	32	Sport, hobby, toy stores.....	23	39	42	44
					All other.....	137	177	210	241

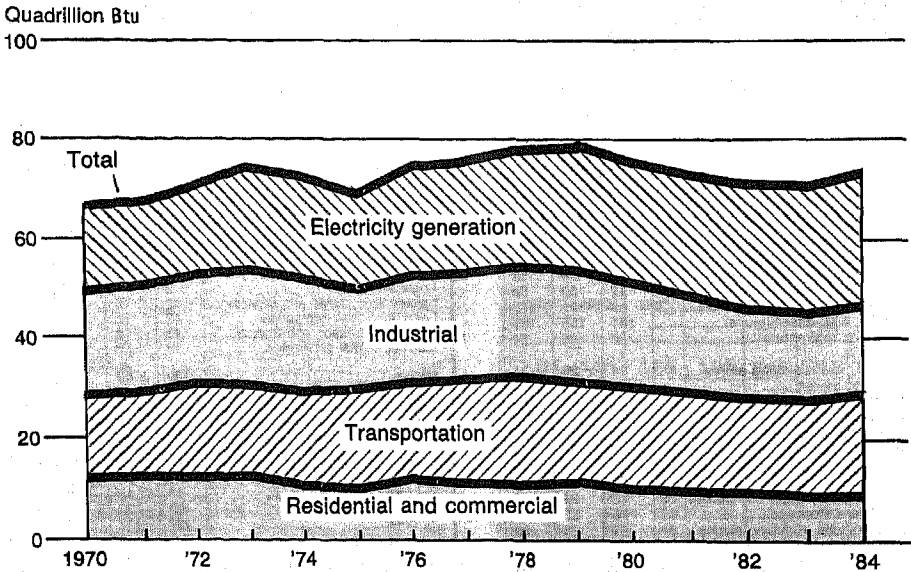
Source of tables 952-954: Television Bureau of Advertising, Inc., New York, NY. Data compiled by Broadcast Advertisers Reports, Inc., New York, NY in the top 75 markets.

Figure 20.1
Energy Production, Supply, and Imports: 1970 to 1984

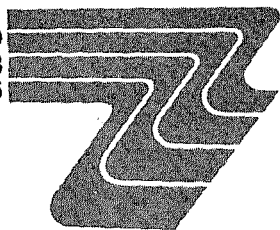


Source: Chart prepared by U.S. bureau of the Census. For data, see table 957.

Figure 20.2
Primary Energy Resources—Consumption by Major Consumer Group:
1970 to 1984



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 960.



Energy

This section presents statistics on fuel resources, energy production and consumption, electric energy, hydropower, nuclear power, solar energy, wood energy and the electric and gas utility industries. The principal sources are the U.S. Department of Energy's Energy Information Administration (EIA), the Edison Electric Institute, Washington, DC, and the American Gas Association, Arlington, VA. The Department of Energy was created in October 1977 and assumed and centralized the responsibilities of all or part of several agencies including the Federal Power Commission (FPC), the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research and Development Administration. For additional data on transportation, see Section 22; on fuels, see Section 27; and on energy-related housing characteristics, see Section 28.

The EIA, in its *Annual Energy Review*, provides statistics and trend data on energy supply, demand, and prices. Information is included on petroleum and natural gas, coal, electricity, hydropower, nuclear power, and solar and geothermal energy. Among its annual reports are *Annual Energy Review*, *Electric Power Annual*, *Natural Gas Annual*, *Petroleum Supply Annual*, *State Energy Data Report*, *Energy Price and Expenditure Report*, *Financial Statistics of Selected Electric Utilities*, *Historical Capital Costs and Annual Production Expenses*, *Residential Energy Consumption Survey*, *Performance Profiles of Major Energy Producers*, *Typical Electric Bills*, *Annual Energy Outlook*, and *International Energy Annual*. These various publications contain national and State data on production of electricity, capacity of generating plants, fuels used in energy production, energy sales and consumption, hydroelectric power, construction costs and production expenses of power plants, and depreciation practices. The EIA also issues the *Monthly Energy Review*, which presents current supply, disposition, and price data, and separate weekly and monthly publications on petroleum, coal, natural gas, and electric power. Data on residential energy consumption, expenditures, and conservation activities are available from EIA's Residential Energy Consumption Survey and are published in *Residential Energy Consumption Survey: Consumption and Expenditures*, and *Residential Energy Consumption Survey: Conservation*, and several other reports.

The Edison Electric Institute's monthly bulletin and annual *Statistical Year Book of the Electric Utility Industry for the Year* contain data on the distribution of electric energy by public utilities; information on the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment is presented in the annual *Year End Summary of the Electric Power Situation in the United States*. The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities, including sales, revenues, customers, prices, and other financial and operating statistics. A wide range of petroleum statistics are provided in the American Petroleum Institute publication *Basic Petroleum Data Book*.

Btu conversion factors.—Various energy sources are converted from original units (e.g., short tons, cubic feet, barrels, kilowatt-hours) to the thermal equivalent using British thermal units (Btu). A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit at or near 39.2 degrees F. Factors are calculated annually from the latest final annual data available; some are revised as a result. The following list provides conversion factors used in 1983 for production and consumption, in that order, for various fuels: Petroleum, 5,800 and 5,393 mil. Btu per barrel; total coal, 22.13 and 21.69 mil. Btu per short ton; and natural gas, 1,031 and 1,031 Btu per cubic foot. The factors for the production of hydropower, nuclear power, and geothermal power were 10,445, 10,905, and 21,303 Btu per kilowatt-hour, respectively.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1985*. For cross-references, see Appendix VI.

No. 955. TOTAL HORSEPOWER OF ALL PRIME MOVERS: 1950 TO 1984

[In millions, except percent. As of January, except as noted. Prior to 1960, excludes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1970*, series S 1-14]

YEAR	Total horse- power	AUTOMOTIVE ^{1 2}		NONAUTOMOTIVE							
		Total	Per- cent of total	Total	Facto- ries ³	Mines ³	Rail- roads ⁴	Mer- chant ships and sailing vessels	Farms	Elec- tric cen- tral sta- tions ⁵	Air- craft ^{6 7}
1950.....	4,868	4,404	90.5	464	33	22	111	⁸ 23	165	88	⁹ 22
1955.....	7,158	6,632	92.7	526	36	31	60	⁸ 24	212	138	⁹ 26
1960.....	11,008	10,367	94.2	641	42	35	47	24	240	217	37
1965.....	15,096	14,306	94.8	790	48	40	44	24	272	307	55
1970.....	20,408	19,325	94.7	1,083	54	45	54	22	290	435	183
1972.....	22,913	21,736	94.9	1,175	57	46	57	21	305	508	181
1973.....	24,262	23,029	94.9	1,233	58	46	57	20	308	562	182
1974.....	24,516	23,224	94.7	1,292	59	46	61	21	315	605	185
1975.....	25,100	23,752	94.6	1,348	60	47	62	22	318	654	185
1976.....	25,732	24,339	94.6	1,393	61	47	64	22	324	692	184
1977.....	26,469	25,025	94.5	1,444	62	47	62	23	328	728	194
1978.....	27,379	25,892	94.6	1,487	63	48	64	25	⁷ 335	754	198
1979.....	28,162	26,617	94.5	1,545	63	48	62	26	342	803	201
1980.....	28,922	27,382	94.6	1,564	64	48	63	28	345	806	210
1981.....	29,507	27,909	94.6	1,598	64	48	65	29	345	835	212
1982.....	30,495	28,852	94.6	1,643	64	48	64	29	352	854	232
1983.....	31,337	29,662	94.7	1,675	64	47	62	29	356	877	240
1984.....	31,819	30,117	94.7	1,702	65	47	61	30	359	886	254

¹ Includes passenger cars, trucks, buses, and motorcycles.

² As of July 1.

³ Beginning 1965, data are estimates.

⁴ Beginning 1965, not strictly comparable with earlier years.

⁵ Includes private planes and commercial airlines.

⁶ Includes Alaska and Hawaii.

⁷ Includes estimates of about 3.0 million hp in work animals and 30,000 in windmills.

Source: 1950 and 1955, The Twentieth Century Fund, New York, NY, J.F. Dawhurst and Associates, *America's Needs and Resources, A New Survey*, and John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1958*, Beginning 1960, John A. Waring, Arlington, VA, unpublished estimates.

No. 956. ENERGY PRODUCTION AND CONSUMPTION, BY MAJOR SOURCE: 1950 TO 1984

[Btu=British thermal unit. For Btu conversion factors, see text, p. 555. See also *Historical Statistics, Colonial Times to 1970*, series M 76-92]

YEAR	Total production (quad. Btu)	PERCENT OF PRODUCTION				Total consumption (quad. Btu)	PERCENT OF CONSUMPTION				Consumption/production ratio
		Coal	Petroleum ¹	Natural gas ²	Other ³		Coal	Petroleum ¹	Natural gas ²	Other ³	
1950.....	34.0	41.4	33.7	20.8	4.2	33.1	37.3	40.2	18.0	4.4	.97
1955.....	38.7	32.0	37.2	27.3	3.5	38.8	28.8	44.4	23.2	3.6	1.00
1960.....	41.5	26.1	36.0	34.0	3.9	43.8	22.5	45.5	28.3	3.7	1.06
1961.....	42.0	24.9	36.2	34.9	4.0	44.5	21.7	45.5	29.1	3.7	1.06
1962.....	43.6	25.0	35.6	35.1	4.2	46.5	21.3	45.2	29.5	4.0	1.07
1963.....	45.9	25.9	34.8	35.4	4.0	48.3	21.6	44.9	29.8	3.7	1.05
1964.....	47.7	26.3	33.9	35.8	4.0	50.5	21.7	44.2	30.3	3.8	1.06
1965.....	49.4	26.5	33.5	35.8	4.3	52.7	22.0	44.1	29.9	4.0	1.07
1966.....	52.2	25.8	33.7	36.4	4.1	55.7	21.8	43.8	30.5	3.9	1.07
1967.....	55.1	25.1	33.9	36.5	4.4	57.6	20.7	43.9	31.2	4.2	1.05
1968.....	56.8	24.0	34.0	37.6	4.4	61.0	20.2	44.2	31.5	4.1	1.07
1969.....	59.1	23.5	33.1	38.7	4.8	64.2	19.3	44.1	32.2	4.4	1.09
1970.....	62.1	23.5	32.9	38.9	4.7	66.4	18.5	44.4	32.8	4.3	1.07
1971.....	61.3	21.5	32.7	40.5	5.3	67.9	17.1	45.0	33.1	4.8	1.11
1972.....	62.4	22.6	32.1	39.7	5.6	71.3	17.0	46.2	31.9	4.9	1.14
1973.....	62.1	22.6	31.4	39.9	6.2	74.3	17.5	46.9	30.3	5.3	1.20
1974.....	60.8	23.1	30.5	38.9	7.4	72.5	17.5	46.1	30.0	6.4	1.19
1975.....	59.9	25.0	29.6	36.8	8.6	70.6	18.0	46.4	28.3	7.3	1.18
1976.....	59.9	26.1	28.8	36.4	8.6	74.4	18.3	47.3	27.4	7.0	1.24
1977.....	60.2	26.2	29.0	36.4	8.5	76.3	18.3	48.7	26.1	6.9	1.27
1978.....	61.1	24.4	30.2	35.6	9.9	78.1	17.6	48.6	25.6	8.2	1.28
1979.....	63.8	27.5	28.4	35.0	9.1	78.9	19.1	47.1	28.2	7.6	1.24
1980.....	64.8	28.7	28.2	34.2	8.9	76.0	20.3	45.0	28.8	7.9	1.17
1981.....	64.4	28.5	28.2	34.2	9.1	74.0	21.5	43.2	28.9	8.4	1.15
1982.....	63.9	29.2	28.7	32.0	10.2	70.8	21.6	42.7	26.1	9.6	1.11
1983.....	61.2	28.2	30.1	30.6	11.2	70.5	22.6	42.6	24.6	10.2	1.15
1984, prel.....	65.5	30.1	28.4	30.7	10.8	73.7	23.3	42.1	24.5	10.1	1.13

¹ Production includes crude oil and lease condensate. Consumption includes domestically produced crude oil, natural gas liquids, and lease condensate, plus imported crude oil and products.

² Production includes natural gas liquids; consumption excludes natural gas liquids.

³ Comprised of hydropower, nuclear power, geothermal energy and other.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 957. ENERGY SUPPLY AND DISPOSITION, BY TYPE OF FUEL: 1960 TO 1984

[In quadrillion British thermal units (Btu), except percent. For Btu conversion factors, see text, p. 555]

TYPE OF FUEL	1960	1970	1973	1975	1976	1977	1978	1979	1980 ¹	1981	1982	1983	1984, prel.
Total supply¹	45.3	69.1	76.3	72.9	76.6	78.4	80.0	81.8	79.7	78.3	75.5	74.2	77.5
Production	41.5	62.1	62.1	59.9	59.9	60.2	61.1	63.8	64.8	64.4	63.9	61.2	65.5
Crude oil ²	14.9	20.4	19.5	17.7	17.3	17.5	18.4	18.1	18.2	18.1	18.3	18.4	18.6
Natural gas liquids	1.5	2.5	2.6	2.4	2.3	2.3	2.2	2.3	2.3	2.3	2.2	2.2	2.4
Natural gas ³	12.7	21.7	22.2	19.6	19.5	19.5	19.5	20.1	19.9	19.7	18.3	16.5	17.7
Coal	10.8	14.6	14.0	15.0	15.7	15.8	14.5	17.5	16.5	18.4	18.5	17.3	19.7
Nuclear power	(2)	.2	.9	1.9	2.1	2.7	3.0	2.8	2.7	3.0	3.1	3.2	3.5
Hydropower	1.6	2.6	2.9	3.2	3.0	2.3	2.9	2.8	2.9	2.8	3.3	3.5	3.4
Geothermal and other	(2)	(2)	(2)	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2
Imports ⁴	4.2	8.4	14.7	14.1	16.8	20.1	19.3	19.6	16.0	14.0	12.1	12.0	12.7
Percent of supply	9.3	12.1	19.3	19.4	22.0	25.6	24.1	24.0	20.0	17.8	16.0	16.2	16.4
Crude oil	2.2	2.8	6.9	8.7	11.2	14.0	13.5	13.8	11.2	9.3	7.4	7.1	7.3
Refined petroleum products ⁵	1.8	4.7	6.6	4.2	4.4	4.7	4.4	4.1	3.5	3.3	3.4	3.6	4.1
Natural gas	.2	.8	1.1	1.0	1.0	1.0	1.0	1.3	1.0	.9	1.0	.9	.9
Total disposition	45.3	69.1	76.3	72.9	76.6	78.4	80.0	81.8	79.7	78.3	75.5	74.2	77.5
Consumption	43.8	66.4	74.3	70.6	74.4	76.3	78.1	78.9	76.0	74.0	70.8	70.5	73.7
Refined petroleum products	19.9	29.5	34.8	32.7	35.2	37.1	38.0	37.1	34.2	31.9	30.2	30.1	31.0
Natural gas ²	12.4	21.8	22.5	19.9	20.3	19.9	20.0	20.7	20.4	19.9	18.5	17.4	18.0
Coal	9.9	12.3	13.0	12.7	13.6	13.9	13.8	15.0	15.4	15.9	15.3	15.9	17.2
Nuclear power	(2)	.2	.9	1.9	2.1	2.7	3.0	2.8	2.7	3.0	3.1	3.2	3.5
Hydropower ⁶	1.7	2.7	3.0	3.2	3.1	2.5	3.1	3.1	3.1	3.1	3.6	3.9	3.8
Geothermal and other	(2)	(2)	(2)	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2
Exports	1.5	2.7	2.1	2.4	2.2	2.1	1.9	2.9	3.7	4.3	4.6	3.7	3.8
Coal	1.0	1.9	1.4	1.8	1.6	1.4	1.1	1.8	2.4	2.9	2.8	2.0	2.2

Z Less than 50 trillion. ¹ Includes adjustments for stock changes, losses, gains, and miscellaneous changes, not shown separately. ² Includes lease condensate. ³ Dry marketed gas. ⁴ Includes other types, not shown separately. ⁵ Includes imports of unfinished oils and natural gas liquids. ⁶ Includes industrial generation and net electricity imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 958. SELECTED ENERGY INDICATORS—SUMMARY: 1950 TO 1984

[Btu=British thermal unit. For Btu conversion factors, see text, p. 555]

YEAR	ANNUAL AVERAGE PERCENT CHANGE ¹								PER CAPITA ⁸ (mil. Btu)		Consumption per dollar GNP ⁵ (1,000 Btu)	
	Energy production				Energy consumption				GNP ⁵	Energy production		Energy consumption
	Total ²	Crude oil ³	Natural gas ⁴	Coal	Total ²	Re-fined petro- leum products	Natural gas (dry)	Coal				
1950.....	2.6	7.2	15.8	17.4	8.6	12.1	15.9	3.0	8.7	224	218	61.9
1955.....	2.6	4.7	8.4	-2.5	3.3	5.3	8.6	-2.0	4.2	235	235	59.1
1960.....	1.4	.7	6.3	-2.6	2.4	2.9	6.6	-2.5	2.3	231	243	59.4
1965.....	3.5	2.0	4.5	3.8	3.8	3.1	4.9	3.3	4.7	255	272	56.7
1970.....	4.7	4.3	6.5	2.3	4.7	4.9	6.7	1.1	3.2	304	326	61.2
1971.....	-1.2	-1.8	2.8	-9.7	2.2	3.5	3.1	-5.4	3.4	296	328	60.5
1972.....	1.8	(2)	-3	6.7	5.0	7.8	1.0	4.1	5.7	298	341	60.1
1973.....	-6	-2.7	-1	-6	4.2	5.7	-8	7.4	5.8	294	351	59.2
1974.....	-2.0	-4.7	-4.4	.6	-2.3	-4.0	-3.5	-2.4	-6	285	340	58.2
1975.....	-1.6	-4.5	-7.4	6.5	-2.8	-2.2	-8.2	(2)	-1.2	278	327	57.3
1976.....	.1	-2.7	-8	4.4	5.4	7.5	2.0	7.3	5.4	275	342	57.3
1977.....	.5	1.1	.5	.6	2.6	5.5	-2.1	2.5	5.5	274	347	55.7
1978.....	1.5	5.6	-4	-5.4	2.4	2.3	-4	-1.1	5.0	275	352	54.3
1979.....	4.4	-1.8	3.0	17.7	1.0	-2.2	3.3	9.3	2.8	284	351	53.3
1980.....	1.5	.8	.9	6.0	-3.7	-7.9	-1.3	2.6	-3	285	334	51.5
1981.....	-5	-6	-7	-1.2	-2.6	-6.6	-2.3	3.1	2.5	281	322	48.9
1982.....	-8	.9	-7.1	1.4	-4.3	-5.3	-7.1	-3.7	-2.1	276	306	47.9
1983.....	-4.2	.5	-8.5	-7.5	-.5	-.6	-6.2	3.8	3.7	261	301	45.9
1984, prel.....	7.0	1.1	7.5	14.2	4.6	3.2	3.9	8.2	6.8	277	312	45.0

Z Less than .05 percent. ¹ Represents annual average for period of intervals shown; for 1950, change from 1949. Percent change derived from Btu values. Minus sign indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. ² Includes types of fuel or power not shown separately. ³ Includes lease condensate. ⁴ Includes natural gas plant liquids. ⁵ Gross national product in constant (1972) dollars, see table 719. ⁶ Based on resident population estimated as of July 1.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 959. ENERGY CONSUMPTION—END-USE SECTOR AND SELECTED SOURCE, BY STATE: 1983

(In trillions of Btu, except as indicated. For Btu conversion factors, see text, p. 555. For composition of regions, see fig. 1 inside front cover)

REGION, DIVISION, AND STATE	Total ¹	Per capita ² (mil. Btu)	END-USE SECTOR				SOURCE				
			Residential	Commercial	Industrial	Transportation	Petroleum	Natural gas (dry)	Coal	Hydropower	Nuclear power
U.S.....	70,508	301	14,736	10,714	25,910	19,147	30,052	17,354	15,867	3,863	3,252
Region:											
Northeast.....	11,347	229	2,906	2,188	3,197	3,057	5,906	2,145	1,825	613	705
Midwest.....	18,083	307	4,377	2,785	6,896	4,225	6,446	4,487	5,944	258	872
South.....	28,504	358	4,925	3,651	12,340	7,588	12,111	7,862	6,488	511	1,525
West.....	12,591	274	2,529	2,092	3,693	4,277	5,589	2,859	1,611	2,481	150
New England	2,692	216	758	512	632	790	1,743	321	131	117	291
Maine.....	348	303	69	35	156	87	243	2	5	84	63
New Hampshire.....	186	194	55	27	46	58	118	10	28	14	-
Vermont.....	107	204	32	16	25	34	57	4	1	13	32
Massachusetts.....	1,197	208	346	261	224	367	774	198	96	3	67
Rhode Island.....	177	185	51	34	41	51	94	30	(2)	(2)	-
Connecticut.....	677	216	205	139	141	193	457	77	(2)	4	128
Middle Atlantic	8,655	234	2,148	1,676	2,565	2,267	4,163	1,824	1,694	498	414
New York.....	3,316	188	900	868	767	781	1,704	743	269	486	181
New Jersey.....	2,084	279	460	363	514	746	1,222	418	90	2	70
Pennsylvania.....	3,256	274	788	444	1,284	739	1,237	664	1,335	12	163
East North Central	12,677	305	3,033	1,942	4,957	2,745	4,203	3,204	4,337	60	649
Ohio.....	3,622	328	775	494	1,509	743	1,221	770	1,334	1	54
Indiana.....	2,186	399	424	223	1,103	437	654	440	1,115	4	0
Illinois.....	3,352	292	837	637	1,106	771	1,189	967	835	1	310
Michigan.....	2,341	258	659	386	811	486	677	718	698	26	181
Wisconsin.....	1,276	268	337	202	428	308	461	308	356	27	103
West North Central	5,406	310	1,344	843	1,739	1,480	2,243	1,283	1,607	198	223
Minnesota.....	1,198	289	304	163	414	317	511	248	212	15	130
Iowa.....	950	327	239	142	336	233	367	227	256	10	26
Missouri.....	1,392	280	379	236	357	419	574	267	580	18	-
North Dakota.....	239	351	49	30	88	71	135	27	214	84	-
South Dakota.....	198	283	52	26	59	60	107	24	31	58	-
Nebraska.....	512	320	132	101	145	134	202	133	104	14	67
Kansas.....	918	379	188	143	341	246	346	357	230	(2)	-
South Atlantic	10,262	264	2,302	1,634	3,089	3,256	4,588	1,349	3,163	184	1,006
Delaware.....	186	307	33	30	71	53	112	36	73	-	-
Maryland.....	1,100	256	265	164	359	312	487	150	237	18	129
District of Columbia.....	164	263	31	55	44	34	45	30	3	-	-
Virginia.....	1,482	267	340	279	394	469	623	147	278	13	207
West Virginia.....	670	341	129	76	332	132	197	119	934	12	-
North Carolina.....	1,608	264	374	228	536	467	649	141	597	64	137
South Carolina.....	970	297	196	133	391	251	321	105	236	32	283
Georgia.....	1,666	291	348	228	523	567	899	305	585	43	86
Florida.....	2,418	226	586	441	419	972	1,464	318	319	2	164
East South Central	4,951	331	989	643	2,023	1,297	1,702	854	1,805	254	434
Kentucky.....	1,240	334	249	155	515	321	432	180	640	34	-
Tennessee.....	1,586	339	343	251	598	395	481	201	542	104	156
Alabama.....	1,331	336	248	146	599	338	465	228	527	116	278
Mississippi.....	795	307	149	91	311	244	324	245	96	-	-
West South Central	13,291	515	1,634	1,374	7,248	3,035	5,821	5,659	1,520	73	85
Arkansas.....	756	325	154	91	302	209	300	213	177	35	85
Louisiana.....	3,207	723	276	279	2,081	571	1,412	1,456	107	-	-
Oklahoma.....	1,301	395	261	187	509	345	458	648	218	26	-
Texas.....	6,028	510	943	817	4,356	1,910	3,651	3,341	1,018	12	-
Mountain	3,839	311	789	631	1,271	1,178	1,550	848	1,485	494	8
Montana.....	297	364	59	45	111	82	134	48	42	120	-
Idaho.....	335	339	71	61	128	75	107	36	9	133	-
Wyoming.....	374	728	40	34	221	79	183	83	315	12	-
Colorado.....	844	269	209	195	177	264	332	220	255	20	8
New Mexico.....	459	328	63	69	153	174	203	184	264	1	-
Arizona.....	752	254	154	138	197	263	303	119	297	151	-
Utah.....	485	300	105	64	189	127	176	114	164	15	-
Nevada.....	292	327	57	36	85	114	133	43	140	43	-
Pacific	8,752	260	1,770	1,461	2,422	3,099	4,039	2,011	126	1,987	142
Washington.....	1,537	357	367	261	522	387	530	111	80	917	39
Oregon.....	804	302	184	133	241	246	341	69	9	470	41
California.....	5,761	229	1,158	1,008	1,360	2,234	2,780	1,582	32	593	62
Alaska.....	419	875	38	42	231	108	161	247	6	6	-
Hawaii.....	231	226	22	18	68	123	227	3	-	1	-

- Represents zero. Z Less than 500 billion. ¹ For source, includes geothermal, wood and waste, and net interstate sales of electricity, including losses, not shown separately. ² Based on estimated resident population as of July 1. ³ Includes -16 trillion Btu of net imports of coke not allocated by State. ⁴ Minus sign (-) indicates when amount of energy expended for pump storage hydropower exceeds amount of energy consumed.

Source: U.S. Energy Information Administration, *State Energy Data Report*, annual.

NO. 960. PRIMARY ENERGY CONSUMPTION BY CONSUMING SECTOR: 1960 TO 1984

[For definition of Btu, see text, p. 555]

SECTOR	1960	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, prel.
Total consumption (quad. Btu).....	43.8	66.4	70.6	74.4	76.3	78.1	78.9	76.0	74.0	70.8	70.5	73.7
Residential and commercial.....	8.7	12.1	11.6	12.3	11.9	11.9	11.5	10.7	10.0	10.1	9.5	9.6
Industrial and miscellaneous.....	16.3	21.9	20.4	21.4	21.9	21.9	22.8	21.0	19.7	17.5	16.9	18.2
Transportation.....	10.6	16.0	18.2	19.1	19.8	20.6	20.4	19.7	19.5	19.1	19.1	19.8
Electricity generation.....	8.2	16.3	20.3	21.6	22.7	23.7	24.1	24.5	24.8	24.3	24.9	26.1
Percent of total:												
Residential and commercial.....	20.0	18.3	16.4	16.5	15.6	15.3	14.6	14.1	13.6	14.2	13.5	13.0
Industrial and miscellaneous.....	37.1	32.9	28.9	28.8	28.7	28.0	28.9	27.7	26.6	24.6	23.9	24.7
Transportation.....	24.1	24.2	25.8	25.6	25.9	26.3	25.9	25.9	26.3	26.9	27.1	26.9
Electricity generation.....	18.7	24.5	28.8	29.0	29.8	30.4	30.6	32.3	33.5	34.3	35.4	35.3

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 961. ENERGY CONSUMPTION, BY SECTOR AND PRIMARY SOURCE: 1984

[In trillions of Btu. For definition of Btu, see text, p. 555]

SECTOR	Total ¹	Coal ²	Natural gas, dry	Petroleum ³	Hydro-electric ⁴	Nuclear power	Other ⁵	Electricity distributed ⁶	Electric energy loss ⁷
Final consuming sectors.....	73,716	3,073	14,820	29,718	33	-	-11	7,769	18,314
Residential and commercial.....	25,993	213	6,913	2,444	-	-	-	4,893	11,530
Industrial.....	27,859	2,860	7,383	7,972	33	-	-11	2,865	6,758
Transportation.....	19,863	-	524	19,302	-	-	-	11	26
Electric utilities.....	26,083	14,094	3,205	1,286	3,751	3,573	174	(x)	(x)

- Represents zero. X Not applicable. ¹Total may not equal sum of components due to independent rounding of the components. ²Represents anthracite, bituminous, and lignite. ³Includes petroleum products, still gas, liquefied refinery gas, and natural gas liquids. ⁴Includes net imports of electricity. ⁵Includes, electricity produced from geothermal, wood, waste, wind, solar thermal, and photovoltaic sources, and net imports of coal coke. ⁶Electrical energy used by railroads, and for street and highway lighting, is included in transportation sector. ⁷Losses allocated by final end-use sector in proportion to their direct kilowatt-hour usage.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, January 1985.

NO. 962. ENERGY EXPENDITURES AND AVERAGE FUEL PRICES, BY SOURCE AND SECTOR: 1970 TO 1982

[Btu=British thermal units; see text, p. 555. End-use sector and electric utilities exclude expenditures and prices on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

SOURCE AND SECTOR	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
EXPENDITURES (mil. dol.)											
Total ^{1,2}	62,233	111,445	153,074	171,391	192,525	219,231	237,765	294,412	371,192	420,338	419,681
Coal.....	4,396	6,481	13,638	13,939	13,932	15,781	18,178	19,809	21,993	25,880	26,166
Natural gas.....	10,882	13,813	16,216	19,773	24,767	29,118	32,034	40,160	50,588	59,960	67,659
Petroleum products ³	47,814	65,270	97,201	103,835	115,099	130,833	137,917	182,414	236,135	259,698	238,569
Motor gasoline.....	31,597	39,677	54,127	59,445	64,459	70,048	74,402	95,166	123,311	137,116	129,945
Distillate fuel oil.....	6,130	9,412	15,180	15,660	18,373	21,975	23,649	32,462	40,806	48,231	44,036
Jet fuel.....	1,539	2,129	3,414	4,466	4,854	5,859	6,594	9,185	14,838	15,636	14,974
Residual fuel.....	2,045	4,822	10,452	10,257	11,571	14,262	13,542	17,839	21,824	22,448	16,958
Electricity sales.....	23,488	33,901	42,733	50,876	57,267	66,638	74,868	81,728	98,475	116,624	126,953
Residential sector ².....	19,904	26,968	32,518	36,866	41,745	47,641	51,827	57,559	68,886	78,095	86,540
Natural gas.....	5,295	6,259	6,978	8,407	9,996	11,351	12,477	14,708	17,521	19,564	23,995
Petroleum.....	4,159	5,863	7,389	7,577	8,856	9,880	10,016	10,916	12,685	13,486	12,687
Electricity sales.....	10,397	14,720	17,922	20,675	22,698	26,199	29,115	31,752	38,513	44,802	49,600
Commercial sector ².....	10,777	15,295	19,652	23,132	26,677	30,947	34,134	38,326	47,447	56,029	61,709
Electricity sales.....	7,408	10,839	13,546	16,377	18,418	21,341	23,801	25,000	30,985	37,976	42,031
Industrial sector ².....	15,987	23,013	36,159	40,556	46,185	54,329	59,266	75,468	91,060	102,288	98,162
Natural gas.....	2,585	3,809	4,754	5,543	7,116	8,472	9,061	11,556	15,868	19,839	19,819
Petroleum.....	5,811	8,497	15,542	15,424	17,795	21,852	22,431	32,931	40,852	42,675	38,169
Electricity sales.....	5,651	8,303	11,208	13,750	16,070	19,016	21,865	24,870	28,849	39,700	35,157
Transportation sector ².....	35,565	46,169	64,745	71,337	77,919	86,315	92,558	123,059	163,799	189,925	173,250
Motor gasoline.....	30,525	38,607	52,754	57,992	62,875	68,529	72,903	93,284	120,744	134,392	127,598
Electric utilities ²	4,321	8,210	17,134	17,555	19,080	23,355	25,546	30,989	37,057	43,215	41,306
Coal.....	2,240	3,875	8,765	8,304	8,402	10,287	12,286	13,710	16,084	19,358	20,632
Natural gas.....	1,148	1,299	1,736	2,438	3,256	4,198	4,673	6,281	8,342	10,468	11,213
Petroleum.....	888	2,837	6,360	6,346	6,881	8,702	8,673	10,048	11,441	11,926	7,774
AVERAGE FUEL PRICES (dol. per mil. Btu)											
All sectors.....	1.65	2.03	2.88	3.35	3.58	4.00	4.25	5.20	6.88	8.01	8.46
Residential sector.....	2.10	2.73	3.40	3.84	4.17	4.82	5.19	6.01	7.55	8.93	9.38
Commercial sector.....	1.98	2.60	3.45	4.14	4.46	5.21	5.65	6.24	7.97	9.65	10.51
Industrial sector.....	.81	1.08	1.77	2.18	2.39	2.75	2.98	3.58	4.59	5.35	5.93
Transportation sector.....	2.32	2.69	3.72	4.05	4.21	4.49	4.62	6.21	8.61	9.78	9.40
Electric utilities.....	.32	.49	1.03	1.03	1.03	1.19	1.29	1.48	1.74	2.00	2.01

¹ Includes electricity sales; excludes electricity generation. ² Includes sources or fuel types not shown separately.Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report, 1970-1982*.

No. 963. ENERGY EXPENDITURES—SOURCE AND END-USE SECTOR, BY STATE: 1982

[In millions of dollars, except per capita. End-use sector and electric utilities exclude expenditures on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy assumed by the energy industry for production, transportation, and processing operations]

DIVISION AND STATE	Total ¹	Per capita ² (dol.)	SOURCE					END-USE SECTOR					Electric utilities
			Petroleum products		Natural gas	Coal	Electricity sales	Residential	Commercial	Industrial	Transportation		
			Total	Gasoline									
U.S.	419,661	1,811	238,569	129,945	67,659	26,166	126,953	65,540	61,709	98,162	173,250	41,306	
N. Eng:													
ME	2,407	2,119	1,911	624	19	17	558	521	243	832	811	127	
NH	1,491	1,573	1,000	507	64	50	494	449	193	274	575	117	
VT	795	1,529	527	306	27	3	242	222	100	140	332	36	
MA	9,545	1,660	6,232	2,752	1,305	224	2,891	2,795	2,024	1,275	3,451	1,130	
RI	1,403	1,472	817	448	199	—	413	420	234	244	505	27	
CT	5,576	1,784	3,587	1,631	571	2	1,938	1,751	1,042	905	1,878	602	
Mid. Atl:													
NY	26,221	1,493	14,260	7,131	4,307	585	9,651	7,296	7,000	3,732	8,193	2,679	
NJ	15,250	2,053	9,188	3,908	2,214	168	4,419	3,701	2,720	2,672	6,157	827	
PA	19,592	1,649	9,662	5,390	3,231	2,315	6,342	5,128	2,652	5,117	6,695	2,079	
E. No. Cent:													
OH	20,393	1,888	10,145	5,735	3,660	2,519	5,872	4,528	2,625	6,024	7,156	1,883	
IN	10,917	1,992	5,308	3,065	1,833	1,830	3,045	2,178	1,014	3,582	4,144	1,099	
IL	19,830	1,730	9,505	5,656	4,324	1,508	6,190	4,682	3,699	4,174	7,275	1,854	
MI	14,786	1,622	7,120	4,890	3,345	1,419	4,048	3,574	2,095	3,448	5,670	1,235	
WI	7,986	1,693	4,132	2,513	1,559	576	2,213	2,066	1,102	1,837	2,981	585	
W. No. Cent:													
MN	7,235	1,751	4,212	2,470	1,168	285	1,833	1,737	799	1,731	2,967	312	
IA	5,775	1,987	3,185	1,893	981	392	1,559	1,310	759	1,515	2,191	356	
MO	8,624	1,745	4,950	2,983	1,353	756	2,297	1,925	1,170	1,750	3,778	732	
ND	1,467	2,184	1,050	513	99	166	307	264	136	386	682	155	
SD	1,314	1,893	922	505	111	42	276	274	123	309	608	38	
NE	2,951	1,857	1,773	1,021	522	114	657	571	423	669	1,288	182	
KS	4,682	1,944	2,595	1,510	979	286	1,271	923	659	1,078	2,023	448	
So. Atl:													
DE	1,139	1,898	766	348	129	101	368	256	194	231	458	225	
MD	7,235	1,694	4,090	2,432	878	482	2,266	1,688	1,022	1,569	2,956	535	
DC	1,033	1,651	388	224	188	8	457	199	342	182	310	7	
VA	9,398	1,713	5,459	3,227	789	530	3,047	2,035	1,467	1,541	4,351	537	
WV	3,488	1,779	1,742	1,037	509	1,430	994	670	359	1,179	1,281	1,187	
NC	8,839	1,635	5,792	3,627	673	1,178	3,294	2,127	1,105	2,177	4,430	1,134	
SC	5,476	1,697	2,941	1,977	441	515	2,002	1,042	622	1,378	2,434	493	
GA	10,138	1,795	5,875	3,616	1,325	978	2,926	1,780	1,178	2,165	5,016	997	
FL	16,997	1,624	11,460	6,304	961	508	6,472	3,688	2,510	2,047	8,751	2,511	
E. So. Cent:													
KY	6,530	1,769	3,614	2,162	655	1,003	2,141	1,191	677	1,782	2,880	884	
TN	8,716	1,872	4,405	2,962	785	802	3,419	1,496	1,281	2,193	3,747	740	
AL	7,596	1,927	3,844	2,379	937	1,028	2,555	1,364	813	2,344	3,075	896	
MS	4,480	1,744	2,581	1,523	802	243	1,377	822	507	1,047	2,105	522	
W. So. Cent:													
AR	4,320	1,873	2,518	1,408	725	218	1,173	788	413	1,200	1,919	369	
LA	12,983	2,962	6,171	2,714	3,231	146	2,800	1,516	1,413	5,854	4,199	1,365	
OK	6,367	1,974	3,614	2,325	1,471	329	1,798	1,200	772	1,307	3,087	845	
TX	40,129	2,618	23,613	9,824	9,455	1,465	11,192	5,674	4,534	14,859	15,061	5,596	
Mt:													
MT	1,509	1,875	997	569	209	32	299	249	177	318	765	27	
ID	1,645	1,684	950	577	191	16	488	253	238	435	719	—	
WY	1,673	3,266	1,158	464	207	270	283	179	144	646	703	245	
CO	5,165	1,682	2,820	1,888	926	315	1,404	1,112	965	699	2,389	301	
NM	2,528	1,849	1,661	951	416	180	608	352	387	444	1,345	336	
AZ	4,964	1,717	2,641	1,703	528	419	1,870	927	830	894	2,313	495	
UT	2,488	1,584	1,398	893	356	246	659	453	294	545	1,196	171	
NV	1,945	2,220	1,202	658	219	175	585	334	196	341	1,074	237	
Pac:													
WA	6,797	1,590	4,342	2,368	574	117	1,852	1,200	872	1,277	3,448	114	
OR	4,534	1,699	2,929	1,565	404	21	1,196	738	578	1,001	2,216	48	
CA	38,913	1,576	22,714	14,055	7,583	148	11,923	6,434	6,640	6,002	19,836	3,488	
AK	1,531	3,449	1,191	303	177	8	214	176	141	336	878	58	
HI	1,993	1,999	1,615	469	43	—	774	280	226	542	946	439	

— Represents zero. ¹ Includes sources not shown separately.

² Based on estimated resident population as of July 1.

³ Includes net imports of coal coke not shown separately by State.

Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report, 1970-1982*.

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NO. 964. RESIDENTIAL ENERGY CONSUMPTION, EXPENDITURES, AND AVERAGE PRICES, 1979 TO 1983, AND BY REGION, 1983

[For period April to March of year stated. Excludes Alaska and Hawaii in 1979 and 1980. Covers occupied units only. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover. Excludes household usage of gasoline for transportation and the use of wood or coal. Btu = British thermal unit; see text, p. 555]

TYPE OF FUEL	Unit	1979, all house- holds	1980, all house- holds	1981, all house- holds	1982, all house- holds	1983				
						All house- holds	North- east	Mid- west	South	West
CONSUMPTION										
Total	Quad. Btu...	10.56	9.74	9.32	9.51	8.62	2.18	2.60	2.46	1.38
Average per household	Mil. Btu	138	126	114	114	103	122	122	88	84
Natural gas	Quad. Btu...	5.58	5.31	4.94	5.39	4.77	.99	1.76	1.19	.89
Electricity	Quad. Btu...	2.47	2.42	2.46	2.48	2.42	.38	.57	1.05	.42
Fuel oil, kerosene	Quad. Btu...	2.19	1.71	1.55	1.33	1.14	.79	.15	.17	.03
Liquid petroleum gas	Quad. Btu...	.33	.31	.36	.31	.29	.02	.11	.12	.04
EXPENDITURES										
Total	Bil. dol.	55.5	63.2	74.8	85.0	87.8	24.6	22.6	28.6	12.0
Average per household	Dollars	724	815	917	1,022	1,048	1,369	1,080	1,019	731
Natural gas	Bil. dol.	15.3	17.8	19.3	24.5	27.1	7.2	9.2	6.3	4.3
Electricity	Bil. dol.	29.9	32.6	40.1	45.9	48.4	10.4	11.2	19.6	7.1
Fuel oil, kerosene	Bil. dol.	8.6	10.7	12.5	11.8	9.6	6.7	1.3	1.4	.3
Liquid petroleum gas	Bil. dol.	1.7	2.1	2.9	2.7	2.7	.3	.9	1.2	.4
AVERAGE PRICE (per million Btu)										
Total	Dollars	5.25	6.49	8.03	8.93	10.18	11.25	8.69	11.60	8.73
Natural gas	Dollars	2.74	3.36	3.90	4.55	5.67	7.28	5.21	5.62	4.85
Electricity	Dollars	12.10	13.46	16.32	18.51	19.98	27.46	19.55	18.73	16.91
Fuel oil, kerosene	Dollars	3.93	6.29	8.04	8.89	8.42	8.43	8.28	8.51	8.58
Liquid petroleum gas	Dollars	5.09	6.71	7.92	8.74	9.42	11.52	8.44	9.82	9.68

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures*, annual.

NO. 965. RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES, BY TYPE OF FUEL AND SELECTED HOUSEHOLD CHARACTERISTIC: 1983

[For period April 1982 to March 1983. Quad.=quadrillion. See headnote, table 964]

CHARACTERISTIC	CONSUMPTION (Btu's)					EXPENDITURES				
	Total ¹ (quad.)	Avg. per house- hold ¹ (mil.)	Natural gas (quad.)	Elec- tricity (quad.)	Fuel oil ² (quad.)	Total ¹ (bil. dol.)	Avg. per house- hold ¹ (dol.)	Natural gas (bil. dol.)	Elec- tricity (bil. dol.)	Fuel oil ² (bil. dol.)
Total households	8.62	103	4.77	2.42	1.14	87.8	1,048	27.1	48.4	9.6
Single family detached	6.04	112	3.34	1.76	.71	60.2	1,120	18.1	34.0	6.0
Single family attached	.43	112	.29	.10	.04	4.4	1,142	1.9	2.1	.4
2-4 unit building	1.00	93	.63	.20	.16	9.9	974	3.9	4.6	1.4
5 or more unit building	.89	73	.44	.26	.19	10.0	818	2.8	5.6	1.6
Mobile home	.27	72	.08	.11	.03	3.2	861	.4	2.1	.3
Year house built:										
1939 or earlier	2.73	115	1.59	.48	.55	25.4	1,077	9.3	10.5	4.6
1940-1949	.75	108	.43	.18	.14	7.4	1,049	2.5	3.6	1.2
1950-1959	1.46	109	.90	.34	.19	14.1	1,056	5.0	7.2	1.6
1960-1964	.90	105	.51	.27	.11	9.4	1,089	2.8	5.4	.9
1965-1969	.79	98	.45	.28	.04	8.4	1,040	2.6	5.3	.3
1970-1974	.92	90	.46	.37	.05	10.3	1,012	2.5	7.0	.4
1975-1979	.87	88	.37	.40	.07	10.3	1,030	2.0	7.4	.6
1980 or later	.19	67	.07	.11	.11	2.5	859	.4	2.0	(S)
Heating and cooling degree day zones:³										
Less than 2,000 CDD and—										
More than 7,000 HDD	.96	112	.50	.22	.17	8.8	1,038	2.7	4.1	1.5
5,500-7,000 HDD	2.58	123	1.63	.54	.35	23.9	1,138	9.0	11.4	3.0
4,000-5,499 HDD	2.41	109	1.20	.62	.54	25.8	1,165	7.8	12.9	4.6
Less than 4,000 HDD	1.67	95	.99	.56	.06	16.2	829	4.9	10.2	.5
More than 2,000 CDD and less than 4,000 HDD	1.01	80	.46	.49	.01	13.1	1,038	2.7	9.8	.1
1981 family income:										
Less than \$5,000	.80	86	.45	.17	.14	7.8	834	2.7	3.6	1.1
\$5,000-\$9,999	1.24	90	.70	.31	.17	12.2	886	3.9	6.4	1.4
\$10,000-\$14,999	1.23	95	.62	.34	.21	12.6	973	3.4	6.8	1.8
\$15,000-\$19,999	.90	98	.50	.25	.13	9.2	995	2.9	4.9	1.1
\$20,000-\$24,999	1.11	104	.63	.31	.14	11.3	1,062	3.6	5.3	1.2
\$25,000-\$34,999	1.67	110	.90	.52	.19	17.3	1,139	6.1	10.1	1.6
\$35,000 and over	1.67	132	.98	.51	.17	17.4	1,377	5.5	10.3	1.4

S Data withheld because of a large variance. ¹ Includes liquid petroleum gas, not shown separately. ² Includes kerosene. ³ CDD=Cooling degree day; HDD=Heating degree day.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures*, April 1982 through March 1983.

NO. 966. AVERAGE RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES OF ALL FUELS USED, BY MAIN HEATING FUEL TYPE AND HOUSEHOLD CHARACTERISTIC: 1983

[For period April 1982 through March 1983. See headnote, table 964]

HOUSEHOLD CHARACTERISTIC	CONSUMPTION PER HOUSEHOLD (mil. Btu)					EXPENDITURES PER HOUSEHOLD (dollars)				
	All households ¹	Households using as main heating fuel—				All households ¹	Households using as main heating fuel—			
		Natural gas	Electricity	Fuel oil ²			Natural gas	Electricity	Fuel oil ²	
			With air conditioning	Without air conditioning				With air conditioning	Without air conditioning	
Total households	103	118	64	55	125	1,048	1,011	1,040	768	1,433
Region:										
Northeast.....	122	134	51	52	135	1,369	1,331	1,128	1,080	1,549
Midwest.....	122	133	72	83	128	1,060	1,024	1,064	1,236	1,404
South.....	88	112	63	47	98	1,019	1,054	1,074	790	1,190
West.....	84	94	63	55	99	731	725	839	574	928
Type:										
Single-family detached.....	112	133	71	66	129	1,120	1,110	1,151	891	1,491
Single-family attached.....	112	121	69	70	142	1,119	1,119	1,031	1,329	1,534
2-4 unit building.....	93	101	61	51	124	974	897	1,006	868	1,398
5 or more unit building.....	73	72	53	35	121	818	648	886	455	1,367
Mobile home.....	72	91	49	51	80	861	784	870	761	999
Year house built:										
1939 or earlier.....	115	124	78	52	136	1,077	990	1,106	703	1,500
1940 to 1949.....	108	116	57	59	127	1,049	978	948	956	1,483
1950 to 1959.....	109	119	69	67	117	1,056	1,022	1,104	782	1,382
1960 to 1964.....	105	114	67	60	121	1,089	1,027	1,151	673	1,505
1965 to 1969.....	98	118	59	59	103	1,040	1,066	1,041	825	1,208
1970 to 1974.....	90	115	62	58	98	1,012	1,011	1,063	845	1,170
1975 to 1979.....	88	117	66	52	111	1,030	1,064	1,022	736	1,318
1980 or later.....	67	86	59	42	(8)	859	799	949	701	(8)
1981 family income:										
Less than \$5,000.....	86	93	56	52	117	834	771	834	716	1,259
\$5,000-\$9,999.....	90	104	53	46	115	886	833	909	676	1,285
\$10,000-\$14,999.....	95	108	56	49	117	973	899	939	736	1,343
\$15,000-\$19,999.....	98	118	56	51	119	995	967	1,013	697	1,345
\$20,000-\$24,999.....	104	118	56	59	134	1,062	1,023	944	811	1,544
\$25,000-\$34,999.....	110	125	66	75	132	1,139	1,104	1,059	965	1,543
\$35,000 or more.....	132	152	87	63	147	1,377	1,361	1,362	805	1,777

¹ Data withheld because of a large variance.

² Includes households using liquid petroleum gas, not shown separately.

³ Includes kerosene.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures, April 1982 through March 1983*.

NO. 967. FOSSIL FUEL PRICES IN CURRENT AND CONSTANT (1972) DOLLARS: 1960 TO 1984

[In cents per million British thermal units (Btu), except as indicated. All fuel prices taken as close to the point of production as possible. See text, p. 555, for explanation of Btu conversions from mineral fuels. Minus sign (-) indicates decrease]

YEAR OR PERIOD	CURRENT DOLLARS					CONSTANT (1972) DOLLARS					GNP ³ price deflators (1972=100)
	Composite ¹	Crude oil	Natural gas	Bituminous coal ²	Anthracite coal	Composite ¹	Crude oil	Natural gas	Bituminous coal ²	Anthracite coal	
1960.....	28.3	49.7	12.6	18.8	33.0	41.2	72.3	18.3	27.4	48.0	68.7
1965.....	27.7	49.3	14.5	17.9	35.3	37.3	66.3	19.5	24.1	47.5	74.4
1970.....	31.7	54.8	15.4	26.2	47.1	34.7	59.9	16.8	28.6	51.5	91.5
1972.....	35.0	58.4	17.3	32.8	52.9	35.0	58.4	17.3	32.8	52.9	100.0
1973.....	39.8	67.1	20.1	36.5	58.9	37.6	63.5	19.0	34.5	55.7	105.8
1974.....	67.6	118.4	27.3	68.2	98.4	58.7	102.9	23.7	59.3	85.5	115.1
1975.....	82.5	132.2	41.1	3.9	144.1	65.6	105.1	32.7	6.7	114.6	125.8
1976.....	90.2	141.2	53.1	85.0	149.0	68.2	106.7	40.1	64.2	112.6	132.3
1977.....	100.8	147.8	72.3	87.7	150.4	72.0	105.5	51.6	62.6	107.4	140.1
1978.....	111.5	155.2	83.6	97.9	149.9	74.1	103.2	55.6	65.1	99.7	150.4
1979.....	141.7	217.9	108.1	105.3	174.1	86.7	133.3	66.1	64.4	106.5	163.4
1980.....	204.1	372.2	144.8	109.4	182.1	114.4	208.6	81.2	61.3	102.1	178.4
1981.....	274.5	547.8	179.5	117.9	186.9	140.3	280.1	91.8	60.3	95.6	195.6
1982.....	275.8	491.7	222.2	122.1	210.4	139.0	237.1	107.1	58.9	101.5	207.4
1983.....	270.1	451.6	232.3	117.2	225.0	125.4	209.7	107.9	54.4	104.5	215.3
1984, prel.....	264.6	446.0	235.9	122.1	236.7	118.4	199.6	105.6	54.6	105.9	223.4
Percent change:											
1960-70.....	12.0	10.3	22.2	39.4	42.7	-15.8	-17.2	-8.2	4.4	7.3	33.1
1970-73.....	25.6	22.4	30.5	39.3	25.1	8.4	6.0	13.1	20.6	8.2	15.6
1973-75.....	107.3	97.0	104.5	129.9	144.7	74.5	65.5	72.1	93.3	105.7	19.0
1975-79.....	71.8	64.8	163.0	25.5	20.8	32.2	26.8	102.1	-3.4	-7.1	29.9
1979-80.....	44.0	70.8	34.0	3.9	4.6	31.9	58.5	22.8	-4.8	-4.1	9.2
1980-81.....	34.5	47.2	24.0	7.8	2.6	22.6	34.3	13.1	-1.6	-6.4	9.6
1981-82.....	.5	-10.2	23.8	3.6	12.6	-5.2	-15.4	16.7	-2.3	6.2	6.0
1982-83.....	-2.1	-8.2	4.5	-4.0	6.9	-5.7	-11.6	.7	-7.6	3.0	3.8
1983-84, prel.....	-2.0	-1.2	1.5	4.2	5.2	-5.6	-4.8	-2.1	.4	1.3	3.8

¹ Weighted by relative importance of individual fuels in total fuels production.

² Includes lignite.

³ GNP=Gross national product; see text, p. 467.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

No. 968. WORLD ENERGY CONSUMPTION, BY REGION AND ENERGY SOURCE: 1960 TO 1983

[In tons of coal equivalent. Metric ton=1.1023 short tons. Kilogram=2.205 pounds. See text, p. 832 for general comments about the data.]

REGION AND ENERGY SOURCE	CONSUMPTION (mil. metric tons)					PER CAPITA (kilograms)				PERCENT DISTRIBUTION			
	1960	1970	1980	1982	1983	1960	1970	1980	1983	1960	1970	1980	1983
World total	3,924	6,440	8,544	8,429	8,523	1,302	1,748	1,919	1,820	100.0	100.0	100.0	100.0
North America ¹	1,599	2,502	2,796	2,620	2,597	5,951	7,825	7,480	6,661	40.7	38.9	32.7	30.5
United States.....	1,454	2,217	2,364	2,193	2,175	8,047	10,611	10,386	9,304	37.1	34.4	27.7	25.5
South America.....	79	143	251	248	247	535	749	1,046	959	2.0	2.2	2.9	2.9
Europe.....	1,039	1,720	2,145	2,037	2,040	2,443	3,745	4,433	4,173	25.5	26.7	25.1	23.9
Asia.....	514	903	1,579	1,635	1,704	276	386	607	621	13.1	14.0	18.5	20.0
Japan.....	96	333	435	409	404	1,025	3,246	3,726	3,397	2.4	5.2	5.1	4.7
U.S.S.R.....	585	999	1,473	1,567	1,612	2,777	4,132	5,549	5,900	15.2	15.5	17.2	18.9
Oceania.....	41	71	105	111	108	2,597	3,675	4,572	4,472	1.0	1.1	1.2	1.3
Energy source:													
Solid fuels.....	1,940	2,159	2,632	2,685	2,753	644	586	591	598	49.4	33.5	30.8	32.3
Liquid fuels.....	1,306	2,835	3,778	3,567	3,537	433	770	848	755	33.3	44.0	44.2	41.5
Natural gas.....	593	1,292	1,834	1,844	1,876	197	351	412	401	15.1	20.1	21.5	22.0
Electricity.....	84	154	301	333	358	28	42	68	76	2.1	2.4	3.5	4.2

¹ Includes Central America.

Source: Statistical Office of the United Nations, New York, NY, *Energy Statistics Yearbook*, annual. (Copyright.)

No. 969. WORLD PRIMARY ENERGY PRODUCTION, BY REGION AND TYPE: 1973 TO 1983

[In quadrillion Btu. Btu=British thermal units. For Btu conversion factors, see source.]

REGION AND TYPE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, prel.
World total	244.8	248.8	246.0	260.4	269.1	274.4	288.8	287.6	281.8	280.2	280.1
North America.....	73.3	72.3	71.1	71.3	72.4	74.0	78.2	80.6	81.0	81.6	79.3
United States.....	62.0	60.7	59.7	59.8	60.1	61.0	63.7	64.6	64.3	63.7	61.0
Central and South America.....	12.9	12.1	10.6	10.8	11.0	11.4	12.4	12.1	12.1	11.9	11.9
Western Europe.....	19.6	20.0	21.4	22.3	23.9	24.8	27.4	28.7	29.9	30.6	32.0
Eastern Europe and U.S.S.R.....	51.4	54.2	56.5	59.5	62.2	64.6	66.8	68.7	68.9	71.7	73.1
Middle East.....	46.6	48.3	43.6	49.2	49.8	47.2	48.4	41.7	35.9	29.1	27.0
Africa.....	14.8	13.9	13.2	15.4	16.4	16.5	18.1	17.5	14.9	15.1	15.7
Far East and Oceania.....	26.2	28.0	29.7	31.9	33.3	35.9	37.6	38.3	39.2	40.2	41.2
Crude oil.....	117.8	118.1	111.6	121.3	126.0	126.3	131.5	125.5	117.5	112.2	111.2
Natural gas.....	43.2	44.0	43.9	45.8	47.1	48.5	51.7	53.3	53.7	52.2	53.5
Natural gas liquids.....	4.2	4.4	4.4	4.5	4.7	4.8	5.2	5.5	5.9	5.8	6.0
Coal.....	63.8	64.7	67.3	69.2	70.4	71.6	76.1	77.7	77.8	80.7	79.4
Hydroelectric power.....	13.5	14.9	15.0	15.1	15.5	16.7	17.6	18.2	18.4	18.9	19.6
Nuclear.....	2.2	2.9	3.9	4.5	5.4	6.4	6.7	7.5	8.6	9.4	10.5

Source: U.S. Energy Information Administration, *International Energy Annual*.

No. 970. DAILY INTERNATIONAL FLOW OF CRUDE OIL, BY AREA: 1982

[In thousands of barrels per day]

EXPORTING AREA	Total	IMPORTING AREA								
		North America		Central and South America	Western Europe		East-ern Europe	Middle East and Africa	Japan	Other Far East and Oceania
		U.S.	Canada		Atlantic Ocean, North Sea	Mediterranean Sea				
World total.....	25,488	3,488	327	2,558	5,395	4,040	1,760	1,184	3,742	2,993
North America	2,046	859	90	500	212	280	-	-	96	10
United States	236	(x)	36	200	-	-	-	-	-	-
Central and South America	1,367	322	127	613	117	102	1	6	28	51
Western Europe	1,726	543	18	46	1,053	62	-	4	-	-
Eastern Europe and U.S.S.R.	2,542	-	-	200	503	280	1,400	30	1	128
Middle East	12,223	681	65	867	2,320	2,433	289	886	2,596	2,106
Africa	3,587	824	27	257	1,180	859	68	253	63	56
Far East and Oceania	1,998	260	-	75	10	25	2	25	958	643

- Represents zero. X Not applicable. ¹ Includes shipments to Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, *International Energy Annual*.

No. 971. U.S. FOREIGN TRADE IN SELECTED MINERAL FUELS: 1960 TO 1984

[Btu=British thermal units. For Btu conversion factors, see text, p. 555. Minus sign (-) indicates an excess of imports over exports. See also *Historical Statistics, Colonial Times to 1970*, series M 100, 101, 127, 128, 140, 141, 178, and 181]

YEAR	NATURAL GAS						CRUDE OIL					
	Imports		Exports		Net trade		Imports ¹		Exports		Net trade	
	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1960.....	155.6	161	11.3	12	-144.3	-149	372	2,196	3	18	-369	-2,178
1970.....	820.8	846	69.8	72	-751.0	-774	483	2,814	5	29	-478	-2,785
1971.....	834.5	845	80.2	83	-854.3	-881	613	3,573	1	3	-612	-3,570
1972.....	1,019.5	1,047	78.0	80	-941.5	-967	811	4,712	(2)	1	-811	-4,710
1973.....	1,032.9	1,060	77.2	79	-955.7	-981	1,184	6,887	1	4	-1,183	-6,883
1974.....	959.3	985	76.8	78	-882.5	-907	1,269	7,395	1	6	-1,268	-7,392
1975.....	953.0	978	72.7	74	-880.3	-904	1,498	8,721	2	12	-1,496	-8,709
1976.....	963.8	988	64.7	66	-899.1	-922	1,935	11,239	3	17	-1,932	-11,221
1977.....	1,011.0	1,037	55.6	56	-955.4	-981	2,414	14,027	18	106	-2,396	-13,921
1978.....	985.5	995	52.5	53	-913.0	-941	2,320	13,460	58	335	-2,262	-13,125
1979.....	1,253.4	1,300	55.7	56	-1,197.7	-1,243	2,380	13,825	86	497	-2,294	-13,328
1980.....	984.8	1,006	48.7	49	-900.1	-957	1,926	11,195	105	609	-1,821	-10,585
1981.....	903.9	917	59.4	60	-844.5	-857	1,605	9,336	83	482	-1,522	-8,854
1982.....	933.3	950	51.7	52	-881.6	-898	1,273	7,416	86	500	-1,187	-6,916
1983.....	919.8	942	54.6	55	-865.1	-887	1,215	7,079	60	348	-1,155	-6,731
1984, prel.....	861.0	882	55.0	56	-806.0	-826	1,254	7,302	66	384	-1,188	-6,918
	COAL						PETROLEUM PRODUCTS					
	Imports		Exports		Net trade		Imports		Exports		Net trade	
	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1960.....	262	7	37,981	1,023	33,720	1,017	293	1,802	71	413	-222	-1,399
1970.....	36	1	71,733	1,936	71,697	1,935	765	4,656	89	520	-676	-4,136
1971.....	111	3	57,304	1,546	57,193	1,543	819	4,968	81	470	-738	-4,498
1972.....	47	1	56,740	1,531	56,693	1,530	924	5,587	81	467	-843	-5,120
1973.....	127	3	53,587	1,425	53,460	1,422	1,099	6,578	84	482	-1,015	-6,087
1974.....	2,080	52	60,661	1,620	58,581	1,568	962	5,731	79	458	-883	-5,273
1975.....	940	24	66,309	1,781	65,369	1,738	712	4,227	74	427	-638	-3,800
1976.....	1,203	30	60,021	1,597	58,818	1,567	741	4,434	79	452	-662	-3,982
1977.....	1,647	41	54,312	1,442	52,665	1,401	800	4,728	70	408	-730	-4,321
1978.....	2,953	74	40,714	1,078	37,761	1,004	733	4,364	74	432	-659	-3,932
1979.....	2,059	51	66,042	1,753	63,983	1,702	707	4,108	86	505	-821	-3,603
1980.....	1,184	30	91,742	2,421	90,548	2,391	603	3,463	94	551	-509	-2,912
1981.....	1,043	26	112,541	2,944	111,498	2,918	584	3,303	134	781	-450	-2,522
1982.....	742	19	106,277	2,787	105,535	2,768	593	3,359	211	1,224	-362	-2,135
1983.....	1,271	32	77,772	2,045	76,501	2,013	629	3,568	210	1,217	-419	-2,351
1984, prel.....	1,234	31	81,462	2,154	80,248	2,123	724	4,099	196	1,162	-526	-2,937

Z Less than 500,000. ¹ Beginning 1977, includes strategic petroleum reserve imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

No. 972. CRUDE OIL IMPORTS INTO U.S., BY COUNTRY OF ORIGIN: 1970 TO 1984

COUNTRY OF ORIGIN	IMPORTS (mil. 42-gal. bbls.)												PERCENT DISTRIBUTION	
	1970	1973	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1970	1984
Total.....	483	1,184	1,498	1,935	2,414	2,320	2,380	1,926	1,605	1,273	1,215	1,254	100.0	100.0
Canada.....	245	385	219	136	102	90	99	73	60	78	100	125	50.7	9.9
Mexico.....	-	(2)	26	32	65	115	160	186	171	235	280	241	-	19.2
Norway.....	-	-	5	13	18	38	28	53	42	37	24	41	-	3.3
Trinidad-Tobago.....	(2)	22	42	38	49	52	45	42	37	34	30	32	(2)	2.5
United Kingdom.....	-	-	-	5	36	62	72	63	135	161	133	138	-	11.0
OPEC.....	222	767	1,171	1,663	2,058	1,892	1,866	1,414	1,067	633	540	553	46.0	44.1
Algeria.....	2	44	96	149	198	231	222	167	95	33	64	71	.4	5.7
Ecuador.....	-	17	21	19	20	14	11	6	14	12	21	17	-	1.4
Gabon.....	-	-	10	10	13	14	15	9	13	14	21	21	-	1.7
Indonesia.....	26	73	138	196	185	195	139	115	116	82	115	111	5.4	8.9
Iran.....	12	79	102	109	193	202	108	3	-	13	18	4	2.5	.3
Iraq.....	-	2	(2)	10	27	23	32	10	-	1	4	5	-	.4
Kuwait.....	12	15	1	(2)	15	2	2	10	-	1	3	9	2.5	.7
Libya.....	17	49	81	162	257	233	234	200	116	8	-	-	3.5	-
Nigeria.....	17	164	272	371	412	332	390	308	223	186	110	76	3.5	6.0
Qatar.....	-	3	7	9	24	23	11	8	3	3	-	-	-	.1
Saudi Arabia.....	15	169	256	447	501	417	492	458	408	194	117	113	3.1	9.0
United Arab Emirates.....	23	26	43	83	122	141	103	63	28	30	7	33	4.8	2.6
Venezuela.....	98	126	144	88	91	66	107	57	54	56	60	93	20.3	7.4
Other.....	16	30	35	48	86	71	110	95	93	95	108	124	3.3	9.9

- Represents zero. Z Less than 500,000 or less than .05 percent.

Source: 1970-1976, U.S. Bureau of Mines, *Minerals Yearbook and Mineral Industry Surveys*; 1977-1980, U.S. Energy Information Administration, *Petroleum Statement*, annual; thereafter, U.S. Energy Information Administration, *Petroleum Supply Annual*.

NO. 973. CRUDE OIL AND REFINED PRODUCTS SUMMARY: 1973 TO 1985

[Barrels of 42 gallons]

YEAR AND MONTH	CRUDE OIL (1,000 bbl. per day)					REFINED OIL PRODUCTS (1,000 bbl. per day)			Total oil im- ports ² (1,000 bbl. per day)	CRUDE OIL STOCKS ³ (mil. bbl.)	
	Input to refiner- ies	Do- mestic pro- duction	Imports		Ex- ports	Do- mestic de- mand	Im- ports	Ex- ports		Total	Stra- tegic re- serve
			Total ¹	Stra- tegic re- serve							
1973, avg.	12,431	9,208	3,244	(x)	2	17,308	3,012	229	6,256	242	(x)
1974, avg.	12,133	8,774	3,477	(x)	3	16,853	2,835	218	6,112	265	(x)
1975, avg.	12,442	8,375	4,105	(x)	6	16,322	1,951	204	6,056	271	(x)
1976, avg.	13,416	8,132	5,287	(x)	8	17,461	2,026	215	7,313	285	(x)
1977, avg.	14,602	8,245	6,615	21	50	18,431	2,193	193	8,807	348	7
1978, avg.	14,739	8,707	6,356	162	158	18,847	2,008	204	8,363	376	67
1979, avg.	14,648	8,552	6,519	67	235	18,513	1,937	236	8,456	430	91
1980, avg.	13,481	8,597	5,263	44	287	17,056	1,646	258	6,909	466	108
1981, avg.	12,470	8,572	4,396	256	228	16,058	1,599	367	5,996	594	230
1982, avg.	11,774	8,649	3,488	165	236	15,298	1,625	579	5,113	644	294
1983, avg.	11,685	8,688	3,329	234	164	15,231	1,722	575	5,051	723	379
1984, avg.	12,044	8,879	3,426	197	181	15,726	2,011	541	5,437	796	451
1st qtr.	11,980	8,805	3,158	144	191	16,096	2,317	475	5,475	728	392
2d qtr.	12,131	8,890	3,635	242	204	15,632	1,976	558	5,611	767	414
3d qtr.	12,215	8,886	3,412	187	153	15,620	1,822	491	5,234	756	431
4th qtr.	11,947	8,927	3,490	212	176	15,539	1,943	637	5,433	796	451
1985, ⁴ avg.	11,781	8,927	2,989	142	211	15,632	1,817	540	4,806	819	477
1st qtr.	11,418	8,928	2,545	123	185	15,813	1,784	596	4,329	791	482
2d qtr.	12,104	8,925	3,433	162	237	15,452	1,849	483	5,282	819	477

X Not applicable. ¹ Includes Strategic Petroleum Reserve. ² Crude oil (including Strategic Petroleum Reserve imports) plus refined products. ³ End of year or quarter. ⁴ Preliminary.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, May 1985.

NO. 974. ENERGY PRODUCING COMPANIES—SELECTED FINANCIAL AND INVESTMENT INDICATORS, 1977 TO 1983, AND BY LINE-OF-BUSINESS, 1983

[Based on data from 26 major publicly-owned domestic crude oil producing companies which either had at least one percent of domestic production or reserves of oil, natural gas, coal, or uranium, or at least one percent of refining capacity or petroleum product sales. Minus sign(—) indicates negative]

ITEM	1977	1978	1979	1980	1981	1982	1983, prel.					
							Total ¹	Line-of-business				
								Petro- leum	Coal	Nuclear	Other ener- gy	Non- ener- gy
INCOME STATEMENT (bil. dol.)												
Operating revenues	266.6	294.8	392.6	518.6	575.7	549.7	511.0	424.4	5.3	.8	1.2	94.6
Operating expenses	239.3	265.0	345.8	455.9	520.8	504.2	462.8	374.6	4.8	.8	1.4	93.3
Operating income	27.3	29.8	46.8	62.7	54.8	45.5	48.2	49.8	.5	-	-.2	1.5
Pretax income	28.2	30.2	48.6	66.9	60.0	45.2	47.4	52.7	.5	-	-.2	2.1
Net income	12.7	13.9	23.5	31.0	30.0	21.8	21.9	24.0	.5	(-z)	-	1.6
Funds from operations ²	27.3	31.2	45.4	59.0	61.6	60.4	60.7	(NA)	(NA)	(NA)	(NA)	(NA)
BALANCE SHEET (bil. dol.)												
Net property, plant, and equipment	125.9	138.1	159.3	188.9	224.9	265.5	279.4	204.6	9.0	1.1	3.6	54.8
Net investment in place ³	135.1	148.1	169.9	202.6	240.8	282.5	296.3	212.2	9.4	1.1	4.0	62.2
Total assets	217.1	237.1	282.8	333.0	372.5	411.9	421.8	(NA)	(NA)	(NA)	(NA)	(NA)
RATIOS (percent)												
Net income to operating revenues	4.8	4.7	6.0	6.0	5.2	4.0	4.3	5.7	8.9	-2.0	3.4	1.9
Net income to total assets	5.8	5.9	8.3	9.3	8.0	5.3	5.2	(NA)	(NA)	(NA)	(NA)	(NA)
Net income to stockholders' equity	12.6	12.8	18.8	21.1	18.1	11.9	11.4	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to stockholders' equity ⁴	38.9	35.6	33.7	31.5	32.2	37.1	34.8	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to total assets ⁴	18.0	16.3	14.9	13.9	14.3	16.6	15.9	(NA)	(NA)	(NA)	(NA)	(NA)

— Represents zero. NA Not available. Z Less than \$50 million. ¹ Includes items which cannot be allocated and adjusted for duplication, not shown separately.

² The sum of net income, depreciation, depletion and amortization, deferred taxes, dry hole expenses, etc. ³ Composed of net property, plant and equipment plus investment and advances to unconsolidated subsidiaries. ⁴ Long-term debt includes amounts applicable to capitalized leases.

Source: U.S. Energy Information Administration, *Performance Profiles of Major Energy Producers*, annual, and unpublished data.

NO. 975. PETROLEUM AND COAL PRODUCTS—SALES, NET PROFIT, AND PROFIT PER DOLLAR OF SALES: 1974 TO 1984

[Represents SIC group 29. Profit rates are averages of quarterly figures at annual rates]

ITEM	Unit	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Sales.....	Bil. dol.	113.5	121.8	141.3	162.3	180.3	242.7	333.2	376.1	357.1	312.7	338.4
Net profit:												
Before income taxes.....	Bil. dol.	17.7	13.3	16.9	17.8	19.2	32.2	39.1	35.3	27.8	27.1	24.5
After income taxes.....	Bil. dol.	14.5	9.3	11.7	12.2	12.8	21.9	25.5	23.7	19.7	19.3	17.2
Depreciation ¹	Bil. dol.	5.1	5.6	5.9	6.6	7.7	9.5	11.6	13.7	16.3	17.5	20.7
Profits per dollar of sales:												
Before income taxes.....	Cents.....	15.6	10.9	12.0	11.0	10.6	13.3	11.7	9.4	7.8	8.7	7.2
After income taxes.....	Cents.....	12.8	7.6	8.3	7.5	7.1	9.0	7.7	6.3	5.5	6.2	5.1
Profits on stockholders' equity:												
Before income taxes.....	Percent.....	25.8	17.9	20.3	19.9	19.8	30.0	30.7	25.6	18.7	17.6	14.3
After income taxes.....	Percent.....	21.1	12.5	14.1	13.6	13.3	20.4	20.0	17.2	13.2	12.7	10.0

¹ Includes depletion and accelerated amortization of emergency facilities.

Source: Through 1981, U.S. Federal Trade Commission and, beginning 1982, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

NO. 976. MAJOR PETROLEUM COMPANIES—FINANCIAL DATA SUMMARY: 1973 TO 1984

[Data represent a composite of approximately 41 major worldwide petroleum companies aggregated on a consolidated, total company basis]

ITEM	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
FINANCIAL DATA (bil. dol.)												
Net income.....	11.8	15.9	11.6	14.3	15.1	16.0	32.8	32.9	29.2	21.1	20.6	21.8
Depreciation, depletion, etc.....	10.5	13.0	11.3	14.8	18.3	19.8	24.9	32.5	34.9	37.2	37.4	39.2
Cash flow ¹	22.3	28.9	22.8	29.1	33.4	35.8	57.7	65.4	64.1	58.3	58.1	61.1
Dividends paid.....	4.0	4.5	4.7	5.4	6.3	6.8	8.0	9.3	10.6	10.6	10.5	11.0
Net internal funds available for investment or debt repayment ²	18.3	24.5	18.1	23.7	27.1	29.0	49.7	56.1	53.5	47.7	47.6	50.1
Capital and exploratory expenditures.....	16.3	25.8	26.9	30.7	31.8	37.1	51.1	62.1	79.2	67.8	50.7	55.1
Long-term capitalization.....	102.9	112.9	121.1	142.9	150.1	168.0	196.9	211.4	248.1	243.8	240.0	255.8
Long-term debt.....	22.5	25.0	28.9	39.1	38.4	45.1	48.1	49.8	59.2	62.6	61.0	87.5
Preferred stock.....	4.4	4.4	4.4	3.9	9.9	9.9	9.9	2.0	2.0	3.5	3.5	3.8
Common stock and retained earnings ³	80.0	87.4	91.9	103.5	110.8	122.0	147.9	159.6	186.9	177.7	175.5	174.5
Excess of expenditures over cash income ⁴	-2.0	1.3	8.9	6.9	4.7	8.1	1.4	6.0	25.7	20.1	3.1	5.0
RATIOS ⁵ (percent)												
Long-term debt to long-term capitalization.....	22.0	22.2	23.8	27.4	25.6	26.8	24.4	23.6	23.8	25.7	25.4	32.9
Net income to total average capital.....	12.0	14.8	10.0	10.7	10.1	9.9	17.8	17.0	10.4	8.6	8.8	8.6
Net income to average common equity.....	15.6	19.0	13.1	14.3	13.9	13.5	24.0	22.5	17.7	11.5	12.0	12.5

¹ Generally represents internally-generated funds from operations. Sum of net income and noncash charges such as depreciation, depletion, and amortization. ² Cash flow minus dividends paid. ³ Includes common stock, capital surplus, and earned surplus accounts after adjustments. ⁴ Capital and exploratory expenditures plus dividends paid minus cash flow.

⁵ Represent approximate year-to-year comparisons because of changes in the makeup of the group due to mergers and other corporate changes.

Source: Carl H. Pforzheimer & Co., New York, NY, *Comparative Oil Company Statements, 1983-1984*, and earlier reports.

NO. 977. ELECTRIC UTILITY PRODUCTION: 1960 TO 1984

[1960-1984 exclude industrial facilities and railways having own generating facilities; projections include net trade and industrial facilities and railways. For explanation of average annual percent change, see Guide to Tabular Presentation]

ITEM	1960	1965	1970	1975	1980	1981	1982	1983	1984
Electricity generation (bil. kWh).....	753	1,055	1,532	1,918	2,286	2,295	2,241	2,310	2,416
Average annual percent change ¹	6.7	7.0	7.7	1.5	3.6	.4	-2.3	3.1	4.6
Per capita ² kWh (1,000).....	4.2	5.5	7.5	9.0	10.1	10.0	9.7	9.9	10.2
Peak load net capability, summer (mil. kW).....	138	189	276	345	430	433	418	451	(NA)
Average annual percent change ¹	7.1	6.5	7.9	1.8	6.7	.2	-3.5	7.9	(NA)

NA Not available. ¹ Change from prior year shown; for 1980, change from 1955. ² Based on U.S. Bureau of the Census estimated resident population as of July 1.

Source: 1960-1975, U.S. Federal Power Commission, unpublished data; 1980, U.S. Energy Information Administration, *Electric Energy and Peak Load*, annual; thereafter, *Electric Power Annual*.

NO. 978. ELECTRIC UTILITY INDUSTRY—ELECTRIC ENERGY PRODUCTION, INSTALLED GENERATING CAPACITY, TYPE OF PRIME MOVER, AND CONSUMPTION OF FUELS: 1960 TO 1984

[Production for calendar years; other data as of December 31, 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series S 32-52, S 76-82, and S 86-107]

ITEM	Unit	1960	1965	1970	1975	1979	1980	1981	1982	1983	1984
PRODUCTION											
Total.....	Bil. kWh.....	753	1,055	1,532	1,918	2,247	2,286	2,295	2,241	2,310	2,416
Average annual change ¹	Percent.....	6.6	7.0	7.8	4.6	4.0	1.7	.4	-2.4	3.1	4.6
Production, kWh per kW of capacity.....	Rate.....	4,482	4,470	4,480	3,776	3,758	3,723	3,614	3,448	3,511	3,595
Privately owned.....	Bil. kWh.....	579	809	1,183	1,487	1,756	1,783	1,785	1,712	1,764	1,849
Percent of total utilities.....	Percent.....	76.8	76.7	77.2	77.5	78.1	78.0	77.0	76.4	76.4	76.5
Publicly owned.....	Bil. kWh.....	175	246	349	431	491	503	509	530	546	567
Municipal.....	Bil. kWh.....	37	50	71	82	87	87	81	77	73	75
Federal.....	Bil. kWh.....	112	145	185	221	236	235	232	241	258	254
Cooperatives and other.....	Bil. kWh.....	26	51	91	128	168	182	196	212	215	102
Source of energy:											
Coal ²	Percent.....	53.5	54.1	46.2	44.7	48.1	51.1	52.7	53.4	54.8	55.9
Nuclear.....	Percent.....	1.4	1.4	3.0	11.4	11.0	11.9	12.6	12.7	13.6	
Oil.....	Percent.....	6.1	6.1	11.9	15.1	13.5	10.7	9.0	6.6	6.2	4.9
Gas.....	Percent.....	21.0	21.0	24.3	15.6	14.7	15.1	15.1	13.6	11.9	12.3
Hydro.....	Percent.....	19.3	18.4	16.2	15.6	12.4	12.1	11.4	13.8	14.4	13.3
INSTALLED CAPACITY											
Total.....	Mil. kW.....	168	236	342	508	598	614	635	650	658	672
Average annual change ¹	Percent.....	8.1	7.0	7.7	8.2	4.2	2.7	3.4	2.4	1.2	2.1
Privately owned.....	Mil. kW.....	128	178	263	389	464	477	491	499	505	515
Percent of total utilities.....	Percent.....	76.5	75.2	76.9	78.5	77.8	77.7	77.3	76.8	76.8	76.6
Publicly owned.....	Mil. kW.....	40	59	79	109	134	137	144	151	153	158
Municipal.....	Mil. kW.....	11	15	21	29	34	35	35	36	37	37
Federal.....	Mil. kW.....	22	32	39	50	58	59	61	63	63	63
Cooperatives and other.....	Mil. kW.....	6	11	19	30	42	43	48	52	53	58
TYPE OF PRIME MOVER ³											
Prime movers, total ⁴	Number.....	3,435	3,290	3,533	3,587	3,573	3,575	3,567	3,515	3,486	3,475
Hydro.....	Number.....	1,331	1,231	1,188	1,146	1,145	1,142	1,147	1,168	1,182	1,194
Steam conventional.....	Number.....			998	937	925	934	937	916	910	905
Gas turbine.....	Number.....	1,055	1,059	323	497	537	541	540	541	542	544
Steam nuclear.....	Number.....	5	9	16	42	51	51	53	53	55	55
Internal combustion.....	Number.....	1,044	991	1,008	965	915	907	890	837	797	777
Production.....	Bil. kWh.....	753	1,055	1,532	1,918	2,247	2,286	2,295	2,241	2,310	2,416
Hydro.....	Bil. kWh.....	146	184	248	300	280	276	261	309	332	321
Steam conventional.....	Bil. kWh.....			1,241	1,417	1,680	1,731	1,736	1,633	1,668	1,751
Gas turbine.....	Bil. kWh.....	602	852	16	22	28	24	22	14	14	15
Steam nuclear.....	Bil. kWh.....	1	4	22	173	255	251	273	283	294	328
Internal combustion.....	Bil. kWh.....	4	5	6	6	4	4	3	2	2	2
Installed capacity.....	Mil. kW.....	168	236	342	508	598	614	635	650	658	672
Hydro.....	Mil. kW.....	32	44	55	66	75	76	77	78	79	81
Steam conventional.....	Mil. kW.....			260	353	412	425	440	452	456	465
Gas turbine.....	Mil. kW.....	133	188	15	44	51	51	51	52	52	52
Steam nuclear.....	Mil. kW.....	(2)	1	6	40	55	56	61	63	67	70
Internal combustion.....	Mil. kW.....	3	3	4	5	5	6	6	5	5	5
CONSUMPTION OF FUELS											
Net generation by fuel ⁵	Bil. kWh.....	607	861	1,284	1,618	1,988	2,010	2,034	1,932	1,978	2,095
Average annual change ¹	Percent.....	6.9	7.2	7.6	4.7	5.0	2.1	1.2	-5.0	2.4	5.9
Coal ⁶	Bil. kWh.....	403	571	706	853	1,076	1,162	1,204	1,192	1,260	1,342
Percent of total.....	Percent.....	66.4	66.3	54.3	52.7	54.7	57.8	59.2	61.7	63.7	64.1
Fuel oil.....	Bil. kWh.....	46	65	182	289	303	246	206	146	144	119
Gas.....	Bil. kWh.....	158	221	373	300	329	346	346	305	274	297
Nuclear.....	Bil. kWh.....	1	4	22	173	255	251	273	283	294	328
Fuel consumed:											
Total coal equivalent.....	Mil. sh. tons.....	286	389	583	770	965	985	1,009	982	982	1,037
Coal.....	Mil. sh. tons.....	177	245	321	406	527	569	597	594	625	665
Oil.....	Mil. bbl.....	85	115	336	506	523	420	351	250	245	204
Gas.....	Bil. cu. ft.....	1,724	2,321	3,632	3,158	3,491	3,682	3,640	3,226	2,911	3,111

Z Less than .5 million. ¹ Change from prior year shown; for 1960, change from 1955. For explanation of average annual percent change, see Guide to Tabular Presentation. ² Includes small percentage from wood and waste, geothermal, and petroleum coke. ³ A prime mover is the engine, turbine, water wheel, or similar machine which drives an electric generator. ⁴ Each prime mover type in combination plants counted separately prior to 1975. ⁵ Includes limited output of wood, waste, and geothermal power. ⁶ Includes petroleum coke.

Source: 1960-1970, U.S. Federal Power Commission, *Electric Power Statistics*, and press releases; thereafter, U.S. Energy Information Administration, 1975-1980, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*, and unpublished data; thereafter, *Electric Power Annual*, and unpublished data.

NO 979. ELECTRIC UTILITY INDUSTRY—CAPABILITY, PEAK LOAD, AND CAPACITY MARGIN: 1970 TO 1983

[Excludes Alaska and Hawaii. Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions, allowing for maintenance, emergency outages, and system operating requirements. Capacity margin is the difference between capability and peak load]

YEAR	CAPABILITY AT THE TIME OF—				NON-COINCIDENT PEAK LOAD		CAPACITY MARGIN			
	Summer peak load (1,000 kW)		Winter peak load ¹ (1,000 kW)		Summer	Winter ¹	Summer		Winter	
	Amount	Change from prior year	Amount	Change from prior year			Amount (1,000 kw)	Per cent of capability	Amount (1,000 kw)	Per cent of capability
1970.....	326,900	² 26,600	339,050	² 27,600	274,650	248,550	52,250	18.0	90,500	26.7
1971.....	353,250	26,350	368,700	27,650	291,200	261,650	61,150	17.3	105,050	28.6
1972.....	381,700	28,450	394,050	27,350	319,150	290,950	62,550	16.4	103,100	28.2
1973.....	415,500	33,800	433,150	39,100	343,900	295,100	71,600	17.2	138,050	31.9
1974.....	444,400	28,900	467,400	34,250	349,250	302,500	95,150	21.4	164,900	35.3
1975.....	479,300	34,900	492,450	25,050	356,800	331,100	122,500	25.6	181,350	32.8
1976.....	498,750	19,450	511,000	18,550	370,900	349,850	127,850	25.6	181,150	31.5
1977.....	518,000	17,250	537,600	26,600	396,350	360,200	119,650	23.2	177,400	33.0
1978.....	545,700	29,700	561,550	23,950	408,050	383,100	135,650	24.9	178,450	31.8
1979 ³	544,506	-1,194	554,525	-7,025	398,424	368,876	146,082	26.8	185,649	33.5
1980.....	558,237	13,731	572,185	17,870	427,058	384,567	131,179	23.5	187,828	32.8
1981.....	572,219	13,982	581,084	8,889	428,295	391,106	143,924	25.2	189,978	32.7
1982.....	586,142	13,923	596,930	15,846	414,909	373,318	171,233	29.2	223,612	37.5
1983.....	596,449	10,307	611,637	14,707	447,526	410,779	148,923	25.0	200,858	32.8

¹ Prior to 1973, data was for the month of December. ² Change from 1969. ³ Data are not entirely comparable with prior years due to change in data source.

Source: Edison Electric Institute, Washington, DC, *Statistical Yearbook of the Electric Utility Industry*, annual.

NO. 980. ELECTRIC ENERGY—PRODUCTION AND INSTALLED GENERATING CAPACITY, BY STATE: 1975 TO 1984

[Capacity as of Dec. 31. Covers utilities for public use]

DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)			DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)		
	1975	1980	1984	1975	1980	1984		1975	1980	1984	1975	1980	1984
U.S.....	1,917.6	2,286.4	2,416.3	508.3	613.5	672.5	SA—Con.						
N.E.....	69.9	78.2	80.7	20.4	21.1	21.4	VA.....	35.3	34.3	38.2	9.7	11.7	11.6
ME.....	7.9	7.9	9.2	1.7	2.4	2.4	WV.....	61.4	70.8	77.9	11.6	15.2	15.1
NH.....	4.7	6.0	6.3	1.6	1.6	1.5	NC.....	53.3	72.1	79.1	15.0	15.6	19.7
VT.....	4.5	3.8	4.5	.9	.9	1.0	SC.....	38.6	41.9	45.0	10.7	11.7	13.8
MA.....	30.5	34.8	32.9	9.4	9.6	10.1	GA.....	41.7	63.3	73.5	13.0	16.3	18.4
RI.....	.8	1.0	.6	.3	.3	.3	FL.....	77.8	95.9	94.4	21.7	29.0	33.7
CT.....	21.4	24.7	27.4	6.4	6.3	6.1	E.S.C.....	171.8	214.1	220.2	46.1	53.3	60.0
M.A.....	238.8	260.5	266.4	67.5	78.4	79.7	KY.....	51.1	57.1	58.9	12.1	13.6	16.4
NY.....	107.3	108.6	109.1	28.4	31.4	32.5	TN.....	54.6	60.2	68.8	14.3	15.9	18.3
NJ.....	23.2	29.4	26.3	11.4	12.6	13.4	AL.....	54.7	78.3	77.1	15.2	18.2	19.2
PA.....	108.2	122.5	130.9	27.7	34.4	33.8	MS.....	11.4	18.5	15.4	4.6	5.5	6.1
E.N.C.....	356.4	397.0	404.0	91.5	107.9	113.2	W.S.C.....	234.0	313.1	332.6	65.8	84.7	95.4
OH.....	102.6	110.2	108.2	24.8	27.4	27.3	AR.....	13.7	19.7	30.1	4.9	7.2	8.6
IN.....	59.4	70.6	81.0	13.4	17.1	20.2	LA.....	39.2	45.7	39.3	11.6	12.9	15.4
IL.....	92.8	103.4	101.0	25.6	29.9	31.9	OK.....	33.3	44.6	45.1	7.9	11.3	13.0
MI.....	69.2	74.8	72.0	18.9	22.7	23.1	TX.....	147.8	203.0	218.1	41.4	53.3	57.3
WI.....	33.5	37.8	41.9	8.9	10.7	10.7	Mt.....	111.5	158.8	198.0	27.6	35.8	43.7
W.N.C.....	132.4	168.2	181.4	36.9	49.0	54.9	MT.....	11.9	15.5	18.9	2.4	3.2	4.0
IA.....	25.3	31.5	28.5	6.8	8.8	8.5	ID.....	10.3	9.5	13.2	1.7	2.0	2.0
MO.....	15.9	21.8	22.8	5.4	7.3	8.7	WY.....	11.9	22.4	31.5	2.8	4.1	5.8
ND.....	40.4	48.9	56.0	11.1	13.8	15.6	CO.....	16.6	23.6	27.4	4.3	6.1	7.5
SD.....	8.3	15.8	21.9	1.7	3.4	4.2	NM.....	19.7	24.7	26.9	4.1	5.0	5.6
NE.....	10.1	8.8	8.2	2.1	2.2	2.3	AZ.....	21.7	36.9	45.8	7.5	9.4	11.0
KS.....	13.3	16.3	18.0	3.8	5.1	5.9	UT.....	5.8	12.1	13.8	1.2	2.1	3.0
S.A.....	342.3	417.8	453.3	92.5	111.5	125.6	NV.....	13.7	14.1	25.5	3.5	3.9	4.5
DE.....	6.0	6.7	9.4	1.5	1.6	2.0	Pac.....	260.6	278.8	279.6	60.0	71.9	78.7
MD.....	26.9	32.2	35.7	7.6	9.2	10.4	WA.....	93.0	92.3	95.2	18.8	23.0	23.2
DC.....	1.2	.7	.3	1.3	1.2	.9	OR.....	34.5	36.6	52.1	7.6	8.5	10.6
							CA.....	125.4	140.3	121.7	33.7	37.8	41.9
							AK.....	2.2	3.1	4.0	.7	1.1	1.4
							HI.....	5.5	6.5	6.7	1.2	1.4	1.6

Source: U.S. Energy Information Administration, 1975 and 1980, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*; thereafter, *Electric Power Annual*.

NO. 981. PRIVATELY AND PUBLICLY OWNED ELECTRIC UTILITY GENERATING PLANTS—NUMBER AND CAPACITY, BY TYPE AND SIZE OF PRIME MOVER: 1970 TO 1984

[Capacity as of Dec. 31. Each prime mover type in combination plants is counted separately. For definition of prime mover, see table 978, footnote 3]

TYPE AND SIZE OF PRIME MOVER	PRIVATELY OWNED						PUBLICLY OWNED					
	Number of prime movers			Capacity (mil. kW)			Number of prime movers			Capacity (mil. kW)		
	1970	1980	1984	1970	1980	1984	1970	1980	1984	1970	1980	1984
Total	2,037	2,094	2,009	262.8	477.0	514.9	1,496	1,481	1,466	78.8	136.6	157.6
Steam, conventional.....	672	626	599	222.4	361.4	387.1	326	308	306	37.7	63.1	77.7
Under 100,000 kW.....	220	134	107	8.2	5.6	4.9	254	195	178	6.9	6.2	6.4
100,000-500,000 kW.....	299	239	222	77.1	64.0	60.1	58	75	82	12.3	17.4	20.5
Over 500,000 kW.....	153	253	270	137.1	291.8	322.1	14	38	46	18.5	39.6	50.8
Steam, nuclear.....	15	43	45	5.7	48.0	58.4	1	8	10	.8	8.5	12.1
Over 500,000 kW.....	7	37	42	4.5	46.8	57.8	1	7	9	.8	8.5	12.1
Hydro.....	754	732	746	18.9	24.2	26.1	434	410	448	36.3	52.1	54.5
Over 25,000 kW.....	165	173	178	15.6	21.0	22.9	164	186	192	35.1	51.0	53.1
Gas turbine.....	265	411	404	14.4	41.6	42.0	58	130	140	1.1	9.1	9.8
Over 25,000 kW.....	126	281	282	12.1	39.4	40.0	12	65	68	.4	8.0	8.7
Internal combustion.....	331	282	215	1.3	1.8	1.3	677	625	562	3.0	3.7	3.5
Under 5,000 kW.....	238	166	116	.5	.4	.3	471	358	307	1.0	.7	.8
Over 5,000 kW.....	93	116	99	.9	1.5	1.1	206	267	255	2.0	3.0	2.9

Source: U.S. Energy Information Administration, unpublished data.

NO. 982. ELECTRIC ENERGY SALES, BY CLASS OF SERVICE, 1970 TO 1984, AND BY STATE, 1984

[In billions of kilowatthours]

YEAR, DIVISION, AND STATE	Total ¹	Residential	Commercial	Industrial	YEAR, DIVISION, AND STATE	Total ¹	Residential	Commercial	Industrial
1970, total.....	1,392.3	466.3	306.7	570.9	S.A.	401.0	155.8	104.1	127.1
1973, total.....	1,712.9	579.2	388.3	686.1	Delaware.....	5.8	1.6	1.6	2.4
1975, total.....	1,747.1	588.1	403.0	687.7	Maryland ²	48.8	15.3	12.8	17.9
1978, total.....	2,017.9	674.5	461.2	809.1	Virginia.....	55.6	22.2	14.0	13.2
1979, total.....	2,071.1	682.8	473.3	841.9	West Virginia.....	22.0	8.9	4.3	10.7
1980, total.....	2,094.4	717.5	488.2	815.1	North Carolina.....	70.5	26.4	16.3	26.5
1981, total.....	2,147.1	722.3	514.3	825.7	South Carolina.....	41.8	13.6	8.2	18.8
1982, total.....	2,086.4	729.5	526.4	744.9	Georgia.....	57.0	21.0	13.8	21.4
1983, total.....	2,151.0	750.9	543.8	776.0	Florida.....	101.5	48.8	38.1	16.3
1984, total	2,278.4	777.7	578.3	840.6	E.S.C.	187.9	66.8	37.6	79.1
N.E.	88.5	31.8	28.7	25.7	Kentucky.....	41.4	14.6	7.7	17.0
Maine.....	10.1	3.4	2.2	4.3	Tennessee.....	71.8	25.7	15.1	30.0
New Hampshire.....	6.6	2.6	1.4	2.5	Alabama.....	49.6	16.6	9.3	23.1
Vermont.....	4.1	1.9	.8	1.3	Mississippi.....	25.2	10.0	5.5	9.0
Massachusetts.....	38.1	13.0	14.1	9.8	W.S.C.	331.0	109.8	75.4	132.9
Rhode Island.....	5.4	2.0	1.9	1.4	Arkansas.....	24.6	8.9	4.8	10.3
Connecticut.....	24.1	9.0	8.3	6.4	Louisiana.....	59.6	18.5	10.9	25.9
M.A.	267.3	82.8	78.2	92.3	Oklahoma.....	38.6	15.1	9.5	11.1
New York.....	112.9	32.6	36.1	32.5	Texas.....	208.2	67.2	50.2	85.6
New Jersey.....	52.6	17.1	18.3	15.7	Mt.	127.6	42.9	35.8	44.8
Pennsylvania.....	101.8	33.2	22.8	44.1	Montana.....	11.5	3.4	2.7	5.2
E.N.C.	402.0	120.2	88.5	177.4	Idaho.....	16.5	5.7	4.3	6.3
Ohio.....	119.8	33.7	23.9	58.1	Wyoming.....	8.4	1.9	1.5	4.8
Indiana.....	64.1	20.2	11.1	31.9	Colorado.....	25.4	10.1	11.0	4.9
Illinois.....	105.5	30.0	27.8	39.7	New Mexico.....	9.2	2.7	2.6	2.9
Michigan.....	72.3	21.9	15.6	32.6	Arizona.....	30.9	11.0	9.4	8.9
Wisconsin.....	40.3	14.5	10.0	15.1	Utah.....	14.0	4.0	2.8	6.5
W.N.C.	168.1	64.9	39.5	58.3	Nevada.....	11.3	4.0	1.7	5.3
Minnesota.....	38.3	13.3	6.1	17.9	Pac.	305.0	102.6	90.4	103.0
Iowa.....	27.6	10.4	6.1	10.0	Washington.....	83.3	28.9	15.5	34.9
Missouri.....	51.7	21.0	13.5	15.6	Oregon.....	36.3	13.5	8.9	13.4
North Dakota.....	6.4	3.0	1.1	2.0	California.....	175.2	56.9	63.3	50.8
South Dakota.....	5.5	2.7	1.1	1.5	Alaska.....	3.5	1.5	1.3	.6
Nebraska.....	15.3	6.3	4.3	3.9	Hawaii.....	6.7	1.9	1.5	3.3
Kansas.....	23.3	8.2	7.2	7.5					

¹ Includes other service, not shown separately. ² Includes District of Columbia.

Source: U.S. Energy Information Administration, *Electric Power Annual*.

No. 983. ELECTRIC UTILITIES—GENERATION, SALES, REVENUE, AND CUSTOMERS: 1970 TO 1983

[Sales and revenue are to and from ultimate customers]

CLASS	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Generation ¹	Bil. kWh	1,532	1,918	2,038	2,124	2,208	2,247	2,286	2,295	2,241	2,310
Sales ²	Bil. kWh	1,391	1,733	1,850	1,951	2,018	2,084	2,126	2,151	2,100	2,158
Residential or domestic	Bil. kWh	448	558	613	652	679	696	734	730	733	751
Percent of total	Percent	32.2	31.8	33.1	33.4	33.7	33.4	34.5	34.0	34.9	34.8
Commercial ³	Bil. kWh	313	418	441	469	481	495	524	522	517	546
Industrial ⁴	Bil. kWh	573	662	725	757	782	818	794	820	770	780
Revenue ²	Bil. dol.	22.1	46.9	53.5	62.6	69.9	79.6	95.5	110.6	121.6	129.6
Residential or domestic	Bil. dol.	9.4	18.8	21.1	24.7	27.4	30.8	37.6	42.4	47.2	51.3
Percent of total	Percent	42.7	40.1	39.6	39.4	39.2	38.7	39.4	38.3	38.8	39.6
Commercial ³	Bil. dol.	6.3	13.5	15.2	18.0	19.7	22.3	27.4	31.3	34.2	37.1
Industrial ⁴	Bil. dol.	5.4	12.7	15.0	17.6	20.3	23.8	27.3	33.0	35.9	36.5
Ultimate customers, Dec. 31 ²	Million	72.5	81.8	83.6	85.6	87.7	89.8	92.7	94.0	95.3	97.1
Residential or domestic	Million	64.0	72.6	74.2	75.9	77.8	79.6	82.2	83.3	84.4	85.8
Commercial ³	Million	7.9	8.6	8.8	8.9	9.1	9.4	9.7	9.8	10.0	10.3
Industrial ⁴	Million	.4	.4	.4	.4	.5	.5	.5	.5	.5	.5
Avg. kWh used per customer	1,000	19.4	21.4	22.4	23.1	23.3	23.5	23.2	23.0	22.2	22.4
Residential	1,000	7.1	8.2	8.4	8.7	8.8	8.8	9.0	8.8	8.7	8.8
Commercial ³	1,000	40.0	49.0	50.7	52.9	53.1	53.2	54.5	53.4	52.3	53.5
Avg. annual bill per customer	Dollar	307	579	646	740	807	897	1,040	1,184	1,285	1,348
Residential	Dollar	149	262	288	329	357	381	462	512	563	603
Commercial ³	Dollar	804	1,590	1,754	2,031	2,177	2,394	2,848	3,207	3,452	3,633
Avg. revenue per kWh sold	Cents	1.69	2.70	2.89	3.21	3.46	3.82	4.49	5.14	5.79	6.00
Residential	Cents	2.10	3.21	3.45	3.78	4.03	4.43	5.12	5.80	6.44	6.83
Commercial ³	Cents	2.01	3.23	3.46	3.84	4.10	4.50	5.22	6.00	6.81	6.78
Industrial ⁴	Cents	.95	1.92	2.07	2.33	2.59	2.91	3.44	4.03	4.66	4.69

¹ Source: 1970-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Monthly Energy Review*. ² Includes other types not shown separately. ³ Small light and power. ⁴ Large light and power.

Source: Except as noted, Edison Electric Institute, Washington, DC, *Statistical Yearbook*.

No. 984. ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY OWNED COMPANIES: 1970 TO 1983

[In billions of dollars. As of Dec. 31. On the basis of both assets and revenues, these classes (A and B utilities) comprise nearly 100 percent of the privately-owned sector of the electric light and power industry. See also *Historical Statistics, Colonial Times to 1970*, series S 133-146 and V 197-212]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
COMPOSITE BALANCE SHEET										
Assets and other debits	87.4	157.1	173.1	192.1	211.1	234.8	260.0	286.0	315.7	343.2
Electric utility plant ¹	93.3	160.7	177.6	196.5	218.0	242.3	266.9	292.7	322.0	348.8
Depreciation and amortization	20.3	31.9	35.6	39.8	44.5	49.7	55.5	61.5	67.0	74.6
Net electric utility plant	73.1	128.8	142.0	157.0	173.5	192.6	211.5	231.2	255.1	274.2
Other utility plant	9.0	11.7	12.1	12.6	13.2	13.9	14.8	15.7	16.7	17.5
Depreciation and amortization	2.1	3.1	3.4	3.7	3.9	4.2	4.5	4.9	5.3	5.8
Net other utility plant	6.9	8.6	8.7	9.0	9.3	9.7	10.3	10.8	11.4	11.8
Total utility plant	102.3	172.4	189.7	209.4	231.2	256.2	281.7	308.4	338.7	366.3
Depreciation and amortization	22.3	35.0	38.9	45.5	48.4	53.9	60.0	66.4	73.2	80.3
Net total utility plant	79.9	137.4	150.7	166.0	182.8	202.3	221.7	242.0	265.5	286.0
Other property and investments	1.7	4.5	4.8	5.6	6.4	6.0	6.5	7.9	9.1	10.4
Current and accrued assets	5.3	13.5	15.6	18.2	18.9	22.4	26.2	28.7	31.8	33.5
Deferred debits	.4	1.7	2.0	2.3	3.0	4.1	5.5	7.3	9.3	13.4
Liabilities and other credits ²	87.4	157.1	173.1	192.1	211.1	234.8	260.0	286.0	315.7	343.2
Capital stock	20.8	37.8	41.6	45.6	49.1	53.8	59.3	63.9	70.4	76.0
Other paid-in capital	4.4	11.5	13.4	15.6	17.9	19.4	21.5	24.0	27.7	31.1
Retained earnings	9.4	14.7	16.2	17.8	19.4	21.0	22.7	25.0	28.0	32.1
Subsidiary earnings ³	(x)	.6	.7	.8	.9	1.0	1.1	1.3	1.6	1.7
Long-term debt	41.9	70.8	76.2	82.2	88.3	95.7	105.3	115.5	124.2	131.9
Current and accrued liabilities	7.3	13.7	14.1	16.0	18.3	23.4	26.3	28.4	28.7	29.6
Deferred credits and operating reserves	.9	2.7	4.0	5.7	7.1	8.7	9.8	11.5	15.6	17.3
Deferred income taxes ⁴	2.2	5.4	6.8	8.3	10.0	11.9	14.1	16.7	19.5	23.6
COMPOSITE INCOME ACCOUNTS										
Electric operating revenues	19.8	44.6	50.6	58.9	65.4	72.9	87.1	102.3	110.0	117.3
Electric operating expenses	15.3	36.1	41.1	48.6	54.3	61.0	73.4	86.0	91.8	96.8
Net electric operating revenues	4.5	8.5	9.4	10.3	11.1	11.8	13.6	16.3	18.2	20.5
Other utility operating income	.4	.5	.6	.6	.7	.7	.7	.9	.9	.9
Total utility operating income	4.9	9.0	10.1	10.9	11.7	12.5	14.4	17.0	19.1	21.5
Other income	.8	2.2	2.5	2.2	2.5	3.1	3.6	4.4	5.3	6.5
Total income	5.7	11.3	12.5	13.0	14.3	15.6	18.0	21.4	24.5	28.0
Income deductions	2.3	5.1	5.4	5.0	5.5	6.1	7.3	8.7	9.4	10.1
Net income ⁵	3.4	6.1	7.2	8.0	8.7	9.5	10.7	12.7	15.1	17.9

X Not applicable. ¹ Includes construction work in progress. ² Includes contributions in aid of construction through 1970.

³ Unappropriated undistributed. ⁴ Cumulative. ⁵ Beginning 1975, includes net extraordinary income.

Source: 1970-1975, U.S. Federal Power Commission and 1976-1981, U.S. Energy Information Administration, *Statistics of Privately Owned Electric Utilities in the United States*, annual; thereafter, U.S. Energy Information Administration, *Financial Statistics of Selected Electric Utilities*, annual.

NO. 985. NUCLEAR POWER PLANTS—NUMBER, CAPACITY, AND GENERATION: 1965 TO 1984

ITEM	1965	1970	1973	1975	1978	1979	1980	1981	1982	1983	1984, prel.
Operable reactors ¹	10	19	39	54	70	68	70	74	77	80	86
Capacity ^{1, 2} (mil. kW)	9	6.5	22.9	33.3	49.6	49.3	51.1	55.5	58.6	62.8	69.5
Electricity generated (bil. kWh)	4	22	64	173	276	255	251	273	283	284	328
Percent of total electric utility generation	4	1.4	4.5	9.0	12.5	11.4	11.0	11.9	12.6	12.7	13.6
Capacity factor ³	(NA)	(NA)	52.9	59.7	65.7	58.7	57.1	58.4	57.2	54.8	56.5

NA Not available. ¹ As of yearend. ² Net maximum dependable capacity of operable reactors. ³ Weighted average of monthly capacity factors. Monthly factors are derived by dividing actual monthly generation by the maximum possible generation for the month (hours in month times net maximum dependable capacity).

Source: U.S. Energy Information Administration, *Annual Energy Review* and *Monthly Energy Review*.

NO. 986. COMMERCIAL NUCLEAR POWER GENERATION, BY COUNTRY: 1970 TO 1984

[Generation for calendar years; other data as of December. Excludes Communist countries]

COUNTRY	REACTORS				ELECTRICITY GENERATED ¹ (bil. kWh)				GROSS CAPACITY (1,000 kW)			
	1970	1980	1983	1984	1970	1980	1983	1984	1970	1980	1983	1984
Total	64	208	250	270	73.9	617.8	799.6	1,053.5	15,186	128,847	172,331	191,502
U.S.	15	74	81	83	23.2	265.2	285.1	340.6	5,211	56,529	67,363	70,779
Argentina	-	1	1	2	-	2.3	2.3	4.5	-	357	357	1,005
Belgium	1	3	5	5	.3	12.5	22.0	27.7	11	1,744	3,621	3,621
Brazil	-	-	1	1	-	-	1	2.0	-	-	657	657
Canada	1	9	12	14	.9	40.4	48.0	53.9	220	5,588	7,597	8,971
China: Taiwan	-	2	4	5	-	8.2	17.2	24.6	-	1,272	3,242	4,194
Germany, F.R. of	4	11	13	14	5.3	43.7	59.0	89.7	907	9,996	11,511	12,922
Great Britain	27	33	35	35	26.5	37.2	44.5	54.1	4,783	9,012	10,960	10,960
Finland	-	4	4	4	-	7.0	15.7	18.5	-	2,296	2,296	2,296
France	4	22	36	42	5.7	61.2	127.4	191.2	1,606	15,412	28,557	34,986
India	2	4	4	5	2.2	2.9	2.6	4.1	400	860	860	1,095
Italy	3	4	2	3	3.3	2.2	5.1	6.9	631	1,490	1,060	1,330
Japan	3	22	25	28	3.3	81.0	97.4	124.9	828	15,117	17,342	19,856
Korea, Rep. of	-	1	3	3	-	3.5	7.7	11.8	-	587	1,916	1,916
Netherlands	1	2	2	2	.4	4.2	3.2	3.7	55	529	535	540
Pakistan	-	1	1	1	-	1	1	3	-	137	137	137
Spain	1	3	6	7	.9	5.2	9.3	23.0	160	1,137	3,907	4,882
Sweden	1	8	10	10	(2)	26.7	35.4	51.3	12	5,770	7,715	7,715
Switzerland	1	4	4	5	1.9	14.3	14.0	16.3	364	2,034	2,034	2,976
Yugoslavia	-	-	1	1	-	-	3.4	4.4	-	-	664	664

- Represents zero. Z Less than 50 million kWh. ¹ Gross.

Source: McGraw-Hill, Inc., New York, NY, *Nuclear News*, December issues. (Copyright.)

NO. 987. URANIUM SUPPLY, ENRICHMENT, AND DISCHARGED COMMERCIAL REACTOR FUEL: 1965 TO 1984

[Years ending Dec. 31, except as noted. For explanation of kilogram, see weights and measures]

ITEM	Unit	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984
URANIUM (U₃O₈)											
Production	Sh. tons	10,442	12,905	11,600	18,490	18,730	21,850	19,240	13,430	10,580	7,450
Exports	Sh. tons	-	2,100	500	3,400	3,103	2,900	2,200	3,100	1,650	1,100
Imports	Sh. tons	3,995	-	700	2,600	1,500	1,800	3,300	8,550	4,100	6,250
Delivered price	Dol./lb	(NA)	(NA)	10.50	21.60	23.85	26.00	32.20	39.90	38.20	3,265
ENRICHMENT											
Enriched product ¹	Mil. Kg. Swu ²	.54	5.10	9.92	11.75	13.98	10.69	11.50	12.36	³ 8.46	11.2
For domestic customers	Mil. Kg. Swu ²	.20	3.74	4.36	6.08	8.68	6.89	7.19	6.69	³ 4.69	5.8
For foreign customers	Mil. Kg. Swu ²	.34	1.35	5.56	5.68	5.31	3.80	4.31	5.67	³ 3.77	5.4
Sales ⁴	Mil. dol	(NA)	(NA)	378	1,046	1,432	1,379	1,445	2,185	2,329	1,457
DISCHARGED COMMERCIAL REACTOR FUEL ⁵											
Annual discharge	Metric tons	36	75	530	1,009	1,201	1,227	1,100	1,037	1,267	1,312
Inventory, yearend ⁶	Metric tons	42	24	1,124	3,581	4,779	6,006	7,106	9,034	10,317	12,399
On-site storage	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	6,827	8,555	9,865	11,996
Off-site storage	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	479	479	449	403

- Represents zero. NA Not available. ¹ Based on sales. ² Separate work unit. The standard measure of enrichment services is based on operating tails assay in effect at the time the enriched product was placed in inventory. ³ Jan.-Sept. only. ⁴ Fiscal years. ⁵ Uranium content. Source: Nuclear Assurance Corporation, Atlanta, GA. ⁶ Reprocessed fuel not included as inventory.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review* and U.S. Dept. of Energy, *Statistical Data of the Uranium Industry, 1983; Uranium Enrichment Annual Report, 1982; Domestic Uranium Mining and Milling Industry, 1983 Viability Assessment*, December 1984; and 1984, *Uranium Industry Annual Survey* (forthcoming).

NO. 988. PRIVATELY OWNED GAS UTILITY INDUSTRY—BALANCE SHEET AND INCOME ACCOUNT: 1960 TO 1983

[In millions of dollars. Excludes Alaska for 1960. The gas utility industry consists of pipeline and distribution companies. Excludes operations of companies distributing gas in bottles or tanks. See also *Historical Statistics, Colonial Times to 1970*, series S 205-216]

ITEM	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983
COMPOSITE BALANCE SHEET										
Assets, total ¹	20,000	25,640	34,929	50,286	62,918	70,245	75,725	86,894	95,003	100,499
Total utility plant.....	20,835	28,205	38,541	49,384	59,033	62,710	66,767	72,917	78,479	82,038
Depreciation and amortization.....	4,570	7,205	10,696	16,779	22,861	24,400	26,062	28,905	31,388	34,208
Utility plant (net).....	16,265	21,000	27,845	32,605	36,172	38,310	40,705	44,009	47,091	47,380
Investment and fund accounts ¹	1,380	1,885	3,024	9,198	12,805	14,097	15,625	19,388	20,750	21,531
Current and accrued assets.....	2,185	2,545	3,674	7,543	12,129	15,427	17,211	20,563	23,576	27,571
Deferred debts ²	170	210	386	940	1,815	2,411	2,184	2,954	3,586	3,567
Liabilities, total ¹	20,000	25,640	34,929	50,286	62,918	70,245	75,725	86,894	95,003	100,499
Capitalization, total ¹	16,940	21,520	28,646	39,044	45,830	48,165	51,299	57,512	62,390	65,040
Capital stock ¹	7,810	10,005	12,985	19,500	25,585	27,135	29,262	33,041	36,161	38,488
Long-term debts.....	9,130	11,515	15,661	19,544	20,245	21,030	22,037	24,471	26,229	26,552
Current and accrued liabilities.....	2,420	3,035	4,832	8,158	11,704	16,024	18,107	22,134	23,809	25,151
Deferred income taxes ³	350	660	788	2,052	2,991	3,798	4,144	4,972	5,473	6,512
Other liabilities and credits.....	290	425	663	1,032	2,393	2,257	2,175	2,276	3,331	3,796
COMPOSITE INCOME ACCOUNT										
Operating revenues, total.....	8,696	11,525	16,380	30,550	52,995	66,931	85,807	101,593	115,673	116,098
Operating expenses ⁴	7,587	10,063	14,306	27,480	49,272	62,887	81,517	96,917	110,259	110,142
Operation and maintenance.....	5,951	7,973	11,636	22,957	43,108	56,281	74,433	89,108	101,548	100,495
Federal, State, and local taxes.....	1,058	1,292	1,569	2,763	3,980	4,294	4,850	5,055	5,694	6,508
Operating income.....	1,109	1,462	2,074	3,070	3,723	4,043	4,293	4,676	5,414	5,954
Utility operating income.....	1,137	1,503	2,159	3,221	3,944	4,296	4,633	5,087	5,819	6,303
Income before interest charges ¹	1,247	1,660	2,457	4,137	5,385	6,303	7,112	8,369	8,742	8,717
Net income ¹	830	1,107	1,427	2,502	3,443	4,208	4,377	5,145	5,072	5,158
Dividends.....	581	781	1,006	1,509	2,117	2,362	2,566	3,064	3,297	3,638

¹ Beginning 1975, not comparable with earlier years due to Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries. ² Includes capital stock discount and expense and reacquired securities. ³ Includes reserves for deferred income taxes. ⁴ Includes expenses not shown separately.

NO. 989. GAS UTILITY INDUSTRY—SUMMARY: 1960 TO 1983

[1960 excludes Alaska. Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately and municipally owned gas utilities in U.S., except those with annual revenues less than \$25,000. See also *Historical Statistics, Colonial Times to 1970*, series S 190-204]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983
Customers ¹	1,000	33,054	37,338	41,482	44,555	45,789	46,478	47,225	47,947	48,415	48,801
Residential.....	1,000	30,418	34,341	38,097	40,950	42,183	42,821	43,489	44,149	44,552	44,894
Commercial.....	1,000	2,458	2,790	3,131	3,387	3,370	3,423	3,500	3,584	3,631	3,678
Industrial and other.....	1,000	178	207	254	237	236	234	236	234	232	228
Sales ²	Tril. Btu ³	9,288	11,980	16,044	14,863	14,748	15,440	15,413	15,375	14,183	12,859
Residential.....	Tril. Btu	3,188	3,999	4,923	4,991	5,107	5,083	4,820	4,610	4,770	4,450
Percent of total.....	Percent	34.3	33.4	30.7	33.6	34.6	32.9	31.3	30.0	33.6	34.6
Commercial.....	Tril. Btu	920	1,345	2,007	2,387	2,500	2,486	2,463	2,376	2,471	2,298
Industrial.....	Tril. Btu	4,710	6,146	8,439	6,837	6,841	7,555	7,957	8,239	6,795	5,970
Other.....	Tril. Btu	470	490	674	648	301	316	177	150	147	141
Revenues ²	Mil. dol	5,817	7,407	10,283	19,101	32,150	36,947	48,303	56,110	63,200	65,837
Residential.....	Mil. dol	3,177	4,030	5,207	8,445	12,939	14,833	17,432	19,180	23,700	26,173
Percent of total.....	Percent	56.6	54.4	50.6	44.2	40.2	39.1	36.1	34.2	37.5	39.8
Commercial.....	Mil. dol	728	1,054	1,620	3,302	5,696	6,824	8,183	9,286	11,666	12,659
Industrial.....	Mil. dol	1,583	2,148	3,181	6,745	13,065	18,981	22,215	27,124	27,200	26,315
Other.....	Mil. dol	153	176	274	608	450	530	473	520	634	690
Prices per mil. Btu ³	Dollars	.60	.62	.64	1.29	2.18	2.52	3.13	3.85	4.46	5.12
Residential.....	Dollars	1.00	1.01	1.06	1.69	2.53	2.92	3.61	4.16	4.97	5.88
Commercial.....	Dollars	.79	.78	.81	1.38	2.28	2.66	3.34	3.91	4.72	5.51
Industrial.....	Dollars	.33	.35	.38	.99	1.91	2.24	2.79	3.29	4.00	4.41
Gas mains mileage.....	1,000	631	768	913	980	1,013	1,030	1,052	1,070	1,083	1,095
Field and gathering.....	1,000	56	62	66	66	75	78	84	86	90	92
Transmission.....	1,000	184	211	252	283	261	263	266	270	272	273
Distribution.....	1,000	391	495	595	649	678	688	702	714	721	730
Construction expenditures ⁴	Mil. dol	1,845	1,935	2,506	2,466	3,581	4,366	5,350	6,389	5,939	4,078
Transmission.....	Mil. dol	848	770	1,019	590	935	1,226	1,583	2,352	1,921	1,065
Distribution.....	Mil. dol	696	824	913	910	1,228	1,448	1,869	1,995	1,881	1,345
Production and storage.....	Mil. dol	216	225	370	831	1,202	1,406	1,546	1,672	1,690	746

¹ Annual average. ² Excludes sales for resale. ³ For definition, see text, p. 555. ⁴ Includes general.

Source of tables 988 and 989: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

NO. 990. GAS UTILITY INDUSTRY—CUSTOMERS, SALES, AND REVENUES, BY CLASS OF SERVICE, AND STATE: 1983

[See headnote, table 989]

DIVISION AND STATE	CUSTOMERS ¹ (1,000)				SALES ² (trillion Btu ⁴)				REVENUES ³ (mil. dol.)			
	Total ²	Residential	Commercial	Industrial	Total ²	Residential	Commercial	Industrial	Total ²	Residential	Commercial	Industrial
U.S.	48,801	44,894	3,678	182	12,859	4,450	2,298	5,970	65,837	26,173	12,659	26,315
N. Eng.	1,787	1,641	133	9	319	140	81	95	2,263	1,178	591	477
ME.....	15	12	3	(2)	2	(2)	1	1	21	5	10	6
NH.....	54	47	7	(2)	10	4	4	1	69	33	26	9
VT.....	16	14	1	(2)	4	1	1	2	28	10	6	10
MA.....	1,103	1,019	75	5	198	89	46	61	1,344	709	338	283
RI.....	178	165	12	1	29	14	5	10	210	121	39	50
CT.....	421	384	35	2	76	32	24	20	591	300	172	119
Mid. Atl.	8,249	7,644	572	23	1,516	729	308	440	9,638	5,157	1,953	2,295
NY.....	3,979	3,718	242	10	590	322	114	127	4,080	2,459	755	704
NJ.....	1,894	1,708	179	7	337	149	81	106	2,168	1,091	533	542
PA.....	2,376	2,218	151	6	589	258	113	207	3,392	1,607	665	1,049
E. No. Cent.	10,966	10,118	797	47	3,031	1,377	626	1,020	15,688	7,650	3,235	4,758
OH.....	2,768	2,564	195	6	695	341	143	206	3,864	2,012	788	1,029
IN.....	1,289	1,179	105	5	412	141	62	207	1,998	781	322	888
IL.....	3,327	3,060	248	18	925	435	205	285	4,555	2,255	969	1,329
MI.....	2,504	2,330	164	10	700	346	162	191	3,637	1,873	859	905
WI.....	1,078	985	85	8	299	114	54	131	1,634	729	297	607
W. No. Cent.	4,288	3,869	403	13	1,133	451	275	401	5,553	2,487	1,378	1,667
MN.....	879	798	76	4	236	97	52	86	1,248	578	283	386
IA.....	762	678	81	2	214	78	48	88	1,016	423	239	353
MO.....	1,223	1,128	93	1	258	127	80	49	1,434	765	443	218
ND.....	93	82	11	(2)	21	10	10	1	112	54	52	6
SD.....	108	96	12	(2)	23	11	7	5	119	60	37	22
NE.....	457	397	59	1	122	47	32	43	535	234	139	162
KS.....	766	690	71	5	259	81	46	129	1,089	375	185	520
So. Atl.	4,258	3,896	342	14	1,154	329	237	581	6,136	2,147	1,368	2,586
DE.....	83	78	5	(2)	24	6	4	13	138	41	22	71
MD.....	793	736	51	5	135	65	30	40	912	473	201	237
DC.....	148	131	15	-	28	13	15	-	211	99	112	-
VA.....	547	498	46	2	134	45	38	48	805	314	236	243
WV.....	391	359	32	(2)	100	42	20	38	559	245	115	199
NC.....	416	368	46	2	133	32	25	76	731	208	145	380
SC.....	312	280	30	1	97	19	17	61	498	118	92	287
GA.....	1,114	1,029	79	2	280	92	57	131	1,411	545	296	567
FL.....	456	417	38	1	223	15	31	174	871	106	149	602
E. So. Cent.	2,252	2,032	204	6	663	182	110	356	3,159	1,010	571	1,513
KY.....	642	583	56	1	149	63	29	52	742	334	148	234
TN.....	527	457	64	2	185	41	42	99	846	212	212	413
AL.....	683	632	47	2	184	50	25	107	905	301	134	465
MS.....	400	360	37	1	145	28	14	98	666	163	77	401
W. So. Cent.	5,764	5,257	476	23	2,721	426	237	2,013	11,286	2,212	1,136	7,749
AR.....	521	460	59	2	183	43	27	112	708	199	115	404
LA.....	1,007	936	67	2	319	88	26	211	1,377	397	145	776
OK.....	887	802	82	3	323	80	44	197	1,162	338	177	644
TX.....	3,349	3,059	268	16	1,896	235	140	1,493	8,039	1,289	699	5,925
Mt.	2,888	2,610	268	7	644	242	156	231	3,062	1,288	785	923
MT.....	188	166	20	1	43	18	12	11	208	79	58	61
ID.....	112	97	15	(2)	30	7	8	15	169	48	49	72
WY.....	129	114	15	(2)	43	13	9	21	188	70	46	71
CO.....	935	835	98	2	190	84	63	43	977	483	319	193
NM.....	349	313	32	2	86	29	15	32	377	148	70	117
AZ.....	590	543	45	2	107	30	22	53	518	193	111	205
UT.....	400	372	28	(2)	104	49	15	40	401	209	64	127
NV.....	185	170	15	(2)	41	12	12	16	224	78	68	77
Pac.	8,349	7,827	483	39	1,678	574	268	833	9,052	3,044	1,642	4,347
WA.....	385	338	44	3	109	27	29	52	620	181	173	263
OR.....	288	252	36	(2)	65	17	16	32	382	121	98	163
CA.....	7,586	7,157	398	33	1,464	519	219	724	7,936	2,707	1,355	3,858
AK.....	57	51	5	1	37	10	4	23	67	24	8	35
HI.....	33	29	2	2	3	1	(2)	2	47	11	8	28

- Represents zero. Z Fewer than or less than 500. ¹ Averages for the year. ² Includes other service, not shown separately. ³ Excludes sales for resale. ⁴ For definition, see headnote, table 956.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

No. 991. WOOD ENERGY CONSUMPTION, BY REGION AND SECTOR: 1980 TO 1983

[In trillions of Btu, except percent]

YEAR	Total	Percent of total energy consumption	REGION				SECTOR			
			North-east	Mid-west	South	West	Residential	Industrial	Commercial	Electric utilities
1980.....	2,483	3.4	386	329	1,380	388	859	1,600	21	4
1981.....	2,495	3.5	395	335	1,349	416	869	1,602	21	3
1982.....	2,478	3.5	358	343	1,392	385	937	1,516	22	2
1983.....	2,640	3.6	380	323	1,526	411	925	1,690	22	3

Source: U.S. Energy Information Administration, *Estimates of U.S. Wood Energy Consumption, 1980-1983*.

No. 992. WATER POWER—DEVELOPED AND UNDEVELOPED CAPACITY, BY DIVISION: 1950 TO 1984

[In millions of kilowatts. As of Dec. 31. Excludes Alaska and Hawaii for 1950 and all capacity of reversible equipment at pumped storage projects. Also excludes capacity precluded from development due to wild and scenic river legislation. See also *Historical Statistics, Colonial Times to 1970*, series S 160-175]

DIVISION	DEVELOPED INSTALLED CAPACITY							ESTIMATED UNDEVELOPED CAPACITY						
	1950	1960	1970	1975	1980	1983	1984	1950	1960	1970	1975	1980	1983	1984
U.S.....	18.7	33.2	52.0	57.0	64.4	66.8	67.7	87.6	114.2	128.0	113.7	129.9	77.3	76.4
New England.....	1.2	1.5	1.5	1.5	1.5	1.6	1.6	3.3	2.9	3.3	3.3	4.7	4.6	4.5
Middle Atlantic.....	1.7	2.5	4.3	4.2	4.3	4.3	4.3	6.6	7.6	4.5	4.3	5.1	5.4	5.4
E. No. Central.....	.9	.9	.9	.9	.9	1.1	1.1	2.3	3.0	1.6	1.4	2.0	1.8	1.8
W. No. Central.....	.8	1.6	2.7	2.8	2.8	2.8	2.8	5.8	6.4	4.4	2.1	3.4	3.0	3.1
South Atlantic.....	2.8	3.8	5.3	5.8	5.9	6.0	6.1	8.2	8.4	9.6	8.4	9.6	8.4	8.1
E. So. Central.....	2.7	3.8	5.2	5.5	5.6	5.8	5.7	4.7	4.6	3.8	3.1	3.3	2.8	2.8
W. So. Central.....	.5	.9	1.9	2.3	2.3	2.3	2.3	3.6	3.9	3.3	2.7	4.7	5.3	5.3
Mountain.....	2.3	4.6	6.2	6.9	7.4	7.9	8.1	23.4	23.6	26.7	19.6	34.2	18.2	18.2
Pacific.....	6.0	13.6	23.9	27.2	33.7	35.0	35.7	29.8	53.8	70.9	68.8	62.9	27.8	27.2

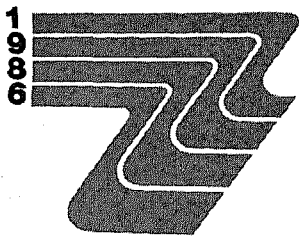
Source: U.S. Federal Energy Regulatory Commission, (formerly U.S. Federal Power Commission), *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, January 1, 1984; and unpublished data.

No. 993. SOLAR COLLECTOR SHIPMENTS, BY TYPE, END-USE, AND MARKET SECTOR: 1974 TO 1984

[In thousands of square feet, except number of manufacturers. Solar collector is a device for intercepting sunlight, converting the sunlight to heat, and carrying the heat to where it will be either used or stored]

YEAR	Number of manufacturers	Total shipments ¹	COLLECTOR TYPE		END USE			MARKET SECTOR		
			Low temperature	Medium temperature, special, other	Pool heating	Hot water	Space heating	Residential	Commercial	Industrial
1974.....	45	1,274	1,137	137	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1975.....	131	3,743	3,026	717	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976.....	186	5,801	3,876	1,925	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977.....	321	10,312	4,743	5,569	6,334	1,713	1,699	7,978	1,680	105
1978.....	340	10,860	5,872	4,988	5,970	2,513	1,736	8,095	1,848	283
1979.....	349	14,251	8,395	5,857	8,551	2,958	1,722	11,387	2,015	314
1980.....	233	19,398	12,233	7,165	12,029	4,790	1,698	16,077	2,417	486
1981.....	203	20,133	8,677	11,456	9,781	7,204	2,017	15,773	2,561	1,518
1982.....	265	18,621	7,476	11,145	7,035	7,444	2,367	13,729	3,789	560
1983.....	203	16,828	4,853	11,975	4,839	9,323	2,082	11,780	3,039	1,665
1984.....	224	16,419	4,479	11,939	4,427	8,930	2,370	13,980	2,091	289

NA Not available. ¹ Includes other end uses and market sectors not shown separately.Source: U.S. Energy Information Administration, *Solar Collector Manufacturing Activity*, annual.



This section presents statistics on scientific, engineering, and technological resources, with emphases on patterns of research and development (R&D) funding and on scientific, engineering, and technical personnel and education. Also included are statistics on space program outlays and accomplishments. Principal sources of these data are the National Science Foundation (NSF) and the National Aeronautics and Space Administration (NASA).

NSF gathers data chiefly through recurring surveys. Current NSF publications containing data on funds for research and development and on scientific and engineering personnel include *Science Resources Studies Highlights*; and annual, biennial, and special reports such as *Federal Funds for Research and Development*; *Research and Development in Industry*; *National Patterns of Science and Technology Resources*; *Academic Science/Engineering: R&D Funds, Scientists and Engineers, Graduate Enrollment and Support*; *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*; *Characteristics of Doctoral Scientists and Engineers in the United States*; *U.S. Scientists and Engineers*; *Employment Attitudes of Recent Science and Engineering Graduates*; *Science and Engineering Employment*; *Characteristics of Experienced Scientists and Engineers*; *Scientists, Engineers, and Technicians in Private Industry*; *Science and Engineering Personnel: A National Overview*; *Science and Technology Data Book*; *Women and Minorities in Science and Engineering*; and policy reports relating to national allocation of human resources and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

The National Science Board's biennial *Science Indicators* publication contains data and analyses of international and domestic science and technology, including measures of their outputs and impacts. *The Budget of the United States Government*, published by the U.S. Office of Management and Budget, contains summary financial data on Federal R&D programs.

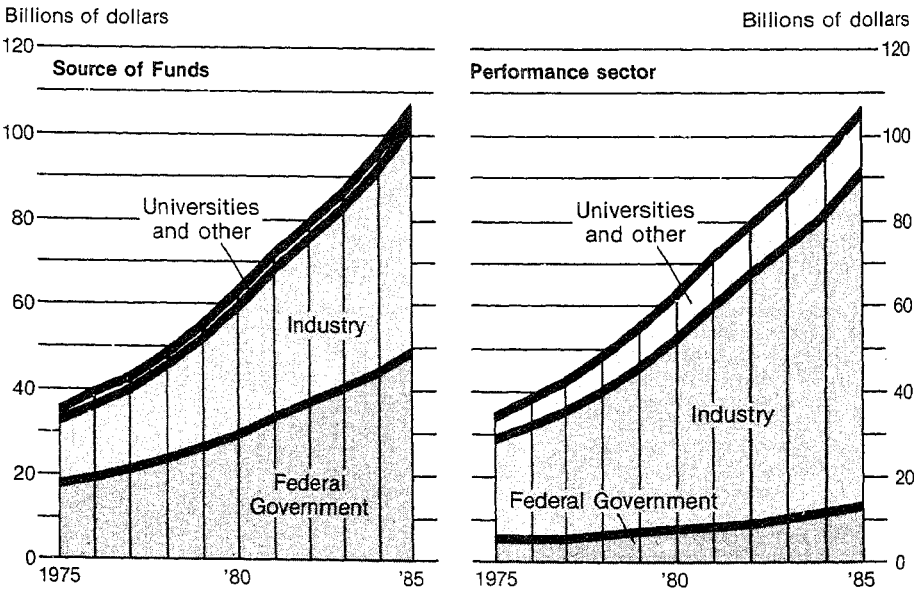
Research and development outlays.—NSF defines research as a “systematic and intensive study directed toward a fuller knowledge of the subject studied” and development as “the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes.” National coverage of R&D expenditures is developed primarily from periodic surveys in four principal economic sectors: (1) *Government*, made up primarily of Federal executive agencies; (2) *industry*, consisting of manufacturing and nonmanufacturing firms and the federally funded research and development centers (FFRDC's) they administer; (3) *universities and colleges*, composed of universities, colleges, and their affiliated institutions, agricultural experiment stations, and associated schools of agriculture, and FFRDC's administered by educational institutions; and (4) *other nonprofit institutions*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and FFRDC's administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including planning and administration costs, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific personnel.

Scientists, engineers, and technicians.—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

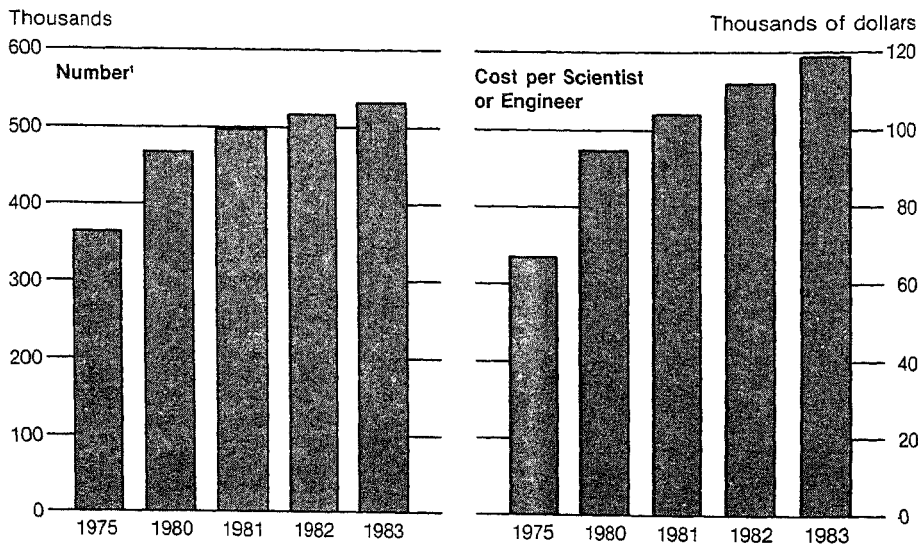
Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1985*. For cross-references, see Appendix VI.

Figure 21.1
Research and Development Funds: 1975 to 1985



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 995 and 996.

Figure 21.2
Research and Development Scientists and Engineers in Private Industry:
1975 to 1983



¹Average full-time equivalent employment.
Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1009.

NO. 994. RESEARCH AND DEVELOPMENT (R&D)—OUTLAYS: 1955 TO 1985

(Includes basic research, applied research, and development. Defense-related outlays comprise all research and development spending by Dept. of Defense, including space activities, and a portion of Department of Energy funds. Space-related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending. Minus sign (-) indicates decrease)

YEAR OR PERIOD	CURRENT DOLLARS (bil. dol.)			CONSTANT (1972) DOLLARS		ANNUAL PERCENT CHANGE ³		PERCENT OF TOTAL R & D OUTLAYS					
								Federally funded defense-space-related			Other outlays		
	Total ¹	De- fense space relat- ed	Other	Total (bil. dol.)	Per- cent of GNP ²	Cur- rent dollars	Con- stant dollars	Total	De- fense	Space	Total	Non- Fed- eral	Fed- eral
1955	6.2	3.0	3.1	10.1	1.5	9.4	7.2	49	48	1	51	43	8
1956	8.4	4.2	4.2	13.3	2.0	35.5	31.4	50	49	1	50	42	8
1957	9.8	5.3	4.5	15.0	2.2	16.9	13.0	54	53	1	47	38	9
1958	10.7	5.8	4.9	16.2	2.4	9.6	7.6	54	53	1	47	37	10
1959	12.4	7.0	5.3	18.3	2.5	15.4	12.8	57	54	3	43	35	8
1960	13.5	7.4	6.1	19.6	2.7	9.4	7.6	55	52	3	45	35	9
1961	14.3	8.0	6.3	20.6	2.7	5.9	4.8	56	50	6	44	35	9
1962	15.4	8.5	6.9	21.8	2.7	7.5	5.7	55	48	7	45	36	9
1963	17.1	9.4	7.7	23.7	2.9	10.8	9.1	55	41	14	45	34	11
1964	18.9	10.6	8.3	25.9	3.0	10.5	8.9	56	37	19	44	34	9
1965	20.0	10.8	9.2	26.9	2.9	6.3	4.0	54	33	21	46	35	11
1966	21.8	11.4	10.5	28.4	2.9	9.0	5.7	52	33	19	48	36	12
1967	23.1	11.3	11.8	29.2	2.9	6.0	2.8	49	35	14	51	38	13
1968	24.6	11.8	12.8	29.8	2.8	6.3	2.0	48	35	13	52	39	13
1969	25.6	11.5	14.1	29.6	2.7	-4.2	-8.4	45	34	11	55	42	13
1970	26.1	11.2	14.9	28.6	2.6	2.0	-3.3	43	33	10	57	43	14
1971	26.7	10.9	15.7	27.8	2.5	2.1	-2.8	41	32	9	59	44	15
1972	28.5	11.7	16.8	28.5	2.4	6.8	2.4	41	32	9	59	44	15
1973	30.7	11.7	19.0	29.1	2.3	7.9	2.4	38	30	8	62	47	15
1974	32.9	11.5	21.4	28.8	2.3	7.0	-1.3	35	27	8	65	49	16
1975	35.2	12.0	23.2	28.2	2.3	7.1	-2.1	34	26	8	66	49	17
1976	39.0	13.3	25.7	29.5	2.3	10.8	4.8	34	26	8	66	49	17
1977	42.8	14.1	28.7	30.5	2.2	9.6	3.4	33	25	8	67	50	17
1978	46.1	14.9	33.2	32.0	2.2	12.5	4.9	31	24	7	69	50	19
1979	54.9	16.5	38.5	33.6	2.3	14.1	5.0	30	23	7	70	51	19
1980	62.6	18.2	44.5	35.1	2.4	13.9	4.5	29	22	7	71	53	18
1981	71.8	21.6	50.3	36.7	2.4	14.8	4.6	30	23	7	70	54	16
1982	79.3	25.4	53.9	38.2	2.6	10.4	3.9	32	25	7	68	54	14
1983	86.6	28.6	58.0	40.1	2.6	9.1	5.1	33	27	6	67	53	14
1984	95.9	33.6	62.4	42.8	2.6	10.8	6.8	35	29	6	65	53	12
1985, est	106.6	38.4	68.2	45.9	2.7	11.1	7.1	36	30	6	64	53	11
Annual average:													
1960-1969	19.4	10.1	9.4	25.6	2.8	7.8	5.0	53	40	13	47	36	11
1970-1979	36.5	12.8	23.8	29.7	2.3	8.0	1.3	38	28	8	64	48	16
1980-1985	83.8	27.6	56.2	39.8	2.6	11.7	5.3	33	26	7	67	53	14

¹ Includes revisions not shown in detail. ² GNP=Gross national product. ³ Change from prior year shown; 1955 change from 1954.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual, and unpublished data.

NO. 995. RESEARCH AND DEVELOPMENT (R&D)—SOURCE OF FUNDS AND PERFORMANCE SECTOR:
1960 TO 1985

[In millions of dollars. See headnote, table 996]

YEAR	Total	SOURCE OF FUNDS				PERFORMANCE SECTOR				
		Federal Govt.	Indus-try	Univ., col-leges	Other ¹	Federal Govt.	Indus-try	Univ., col-leges	Associat-ed FFRDC's ¹	Other ²
Current dollars:										
1960	13,523	8,738	4,516	149	120	1,726	10,509	646	360	282
1965	20,044	13,012	6,548	267	217	3,093	14,185	1,474	629	663
1970	26,134	14,892	10,444	461	337	4,079	18,067	2,335	737	916
1975	35,213	18,109	15,820	749	535	5,354	24,187	3,409	987	1,276
1980	62,593	29,451	30,911	1,323	908	7,632	44,505	6,060	2,246	2,150
1981	71,839	33,402	35,941	1,523	973	8,425	51,810	6,818	2,486	2,300
1982	79,301	36,502	40,088	1,683	1,028	9,141	57,995	7,261	2,479	2,425
1983	86,555	40,344	43,246	1,830	1,135	10,582	62,618	7,745	2,737	2,675
1984	95,925	44,675	47,975	2,080	1,195	12,300	69,250	8,625	2,775	2,975
1985, est	106,600	49,775	53,210	2,300	1,315	13,300	77,500	9,625	2,975	3,200
Constant (1972) dollars:										
1960	19,635	12,673	6,573	214	175	2,481	15,297	928	517	412
1965	26,896	17,443	8,806	356	291	4,124	19,777	1,965	838	692
1970	28,613	16,316	11,421	506	370	4,461	19,756	2,564	809	1,003
1975	28,153	14,537	12,579	608	429	4,344	19,229	2,766	801	1,013
1980	35,122	16,542	17,325	745	510	4,297	24,944	3,412	1,264	1,205
1981	36,740	17,087	18,375	780	498	4,313	26,488	3,490	1,273	1,176
1982	38,155	17,528	19,329	804	493	4,367	27,966	3,469	1,184	1,169
1983	40,092	18,646	20,081	841	524	4,863	29,171	3,559	1,258	1,242
1984	42,824	19,896	21,475	921	532	5,445	31,001	3,818	1,228	1,332
1985, est	45,863	21,374	22,942	983	564	5,682	33,418	4,112	1,271	1,380

¹ Federally-funded R & D centers.

² Nonprofit institutions.

No. 996. RESEARCH AND DEVELOPMENT (R & D) FUNDS, BY PERFORMANCE SECTOR AND SOURCE: 1970 TO 1985

[In millions of dollars, except percent. Data primarily on calendar year basis—calendar year data for industry and other nonprofit institutions combined with Federal and university fiscal year data. Data refer, in general, to natural sciences including engineering, and to social sciences in all but industry sector. Excludes capital expenditures data. Expenditures at associated federally funded research and development centers administered by industry and other nonprofit institutions included in totals of respective sectors. See also *Historical Statistics, Colonial Times to 1970*, series W 109-125]

PERFORMANCE SECTOR AND SOURCE OF FUNDS	1970	1975	1978	1979	1980	1981	1982	1983	1984, est.	1985, est.
Total R & D ¹	26,134	35,213	46,129	54,933	62,593	71,839	79,301	86,555	95,925	106,500
In 1972 dollars	28,613	28,153	32,002	33,612	35,122	36,740	38,155	40,092	42,624	45,863
Percent Federal as source	57.0	51.4	49.6	48.8	47.1	46.5	46.0	46.6	46.6	46.7
Percent of gross national product	2.6	2.3	2.2	2.3	2.4	2.4	2.6	2.6	2.6	2.7
Federal Government	4,079	5,354	6,811	7,417	7,632	8,425	9,141	10,582	12,300	13,300
Industry	19,067	24,187	33,304	38,226	44,505	51,810	57,995	62,816	69,250	77,500
Federal funds	7,779	8,805	11,189	12,518	14,029	16,382	18,483	20,215	22,000	25,100
Industry funds	10,288	15,582	22,115	25,708	30,476	35,428	39,512	42,601	47,250	52,400
Universities and colleges	2,335	3,409	4,625	5,361	6,080	6,818	7,261	7,745	8,625	9,825
Federal funds	1,648	2,288	3,059	3,595	4,094	4,559	4,749	4,960	5,500	6,150
Industry funds	61	113	170	193	235	289	326	370	425	485
University and college funds ²	461	749	1,037	1,200	1,323	1,523	1,683	1,830	2,080	2,300
Other nonprofit institutions funds ²	165	259	359	373	408	448	503	585	620	690
Universities and colleges, associated federally funded R & D centers	737	987	1,717	1,935	2,246	2,486	2,479	2,737	2,775	2,975
Other nonprofit institutions	916	1,276	1,672	1,994	2,150	2,300	2,425	2,675	2,975	3,200
Federal funds	649	875	1,100	1,350	1,450	1,550	1,650	1,850	2,100	2,250
Industry funds	95	125	165	180	200	225	250	275	300	325
Other ³	172	276	407	464	500	525	525	550	575	625
Total research, basic and applied	9,269	12,471	17,236	19,529	22,129	26,083	28,735	32,867	34,745	37,850
In 1972 dollars	10,160	10,047	11,461	12,009	12,430	13,343	13,799	15,195	15,479	16,256
Percent Federal as source	60.1	56.8	56.1	55.6	54.9	52.6	50.6	51.1	48.4	47.3
Federal Government	1,904	2,464	3,221	3,481	3,666	4,034	4,194	4,710	5,000	5,225
Industry	4,029	5,300	7,335	8,393	9,775	12,340	14,350	17,186	17,800	19,475
Federal funds	1,207	1,287	1,680	1,820	2,190	2,668	3,100	4,373	3,450	3,500
Industry funds	2,822	4,013	5,655	6,563	7,585	9,672	11,250	12,823	14,350	15,975
Universities and colleges	2,223	3,261	4,389	5,077	5,717	6,441	6,846	7,309	8,150	9,105
Federal funds	1,564	2,210	2,937	3,435	3,886	4,334	4,514	4,714	5,240	5,870
Industry funds	56	106	155	177	215	262	298	340	385	440
University and college funds ²	448	702	959	1,115	1,233	1,422	1,563	1,703	1,940	2,150
Other nonprofit institutions funds ²	155	243	338	350	383	423	473	555	585	645
Universities and colleges, associated federally funded R & D centers	485	573	1,116	1,298	1,486	1,663	1,665	1,832	1,870	1,995
Other nonprofit institutions	628	873	1,175	1,390	1,485	1,605	1,690	1,820	1,925	2,050
Federal funds	409	545	720	880	930	1,010	1,075	1,180	1,250	1,315
Industry funds	77	103	135	145	160	180	200	220	240	260
Other ³	142	225	320	365	395	415	405	420	435	475
Total basic research	3,549	4,608	6,392	7,257	8,079	9,207	9,901	10,885	12,055	13,250
In 1972 dollars	3,895	3,720	4,250	4,438	4,543	4,712	4,742	5,021	5,353	5,675
Percent of total R & D	13.6	13.1	13.3	13.2	12.9	12.8	12.5	12.6	12.6	12.4
Percent Federal as source	70.1	68.1	69.5	69.5	68.8	67.7	66.8	66.2	66.4	66.5
Federal Government	577	734	1,029	1,089	1,182	1,302	1,465	1,690	1,875	2,050
Industry	602	730	1,035	1,158	1,325	1,641	1,850	2,064	2,300	2,550
Federal funds	158	157	250	265	290	329	350	413	450	500
Industry funds	444	573	785	893	1,035	1,313	1,500	1,651	1,850	2,050
Universities and colleges	1,796	2,410	3,176	3,612	4,026	4,576	4,851	5,214	5,870	6,500
Federal funds	1,296	1,694	2,264	2,572	2,851	3,248	3,393	3,533	4,030	4,500
Industry funds	40	72	99	113	135	167	180	226	260	290
University and college funds ²	350	478	605	711	805	909	983	1,090	1,220	1,330
Other nonprofit institutions funds ²	110	166	208	216	235	252	285	355	380	380
Universities and colleges, associated federally funded R & D centers	269	309	567	718	786	863	870	982	1,000	1,075
Other nonprofit institutions	305	425	585	680	760	825	865	945	1,010	1,075
Federal funds	189	245	335	400	450	495	535	600	650	690
Industry funds	44	60	80	85	95	105	115	125	135	145
Other ³	72	120	170	195	215	225	215	220	225	250
Total development	16,865	22,742	30,893	35,304	40,464	45,756	50,586	53,688	61,180	68,750
In 1972 dollars	18,453	18,136	20,541	21,603	22,692	23,396	24,356	24,897	27,345	29,607
Percent of total R & D	64.5	64.6	64.2	64.3	64.6	63.7	63.8	62.0	63.8	64.5
Percent Federal as source	55.3	48.5	46.0	45.0	42.7	43.0	43.4	43.8	45.5	46.4

¹ Basic research, applied research, and development. ² Includes State and local government funds received by these institutions and used for research and development. ³ Includes estimates for independent nonprofit hospitals and voluntary health agencies.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

NO. 997. FEDERAL FUNDING FOR RESEARCH AND DEVELOPMENT, BY BUDGET FUNCTION: 1976 TO 1985

[In millions of dollars. For years ending June 30 except, beginning 1977 ending Sept. 30. Excludes R&D plant. Data for 1976-77 are shown in obligations, and for 1978-85 are shown in budget authority. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations]

FUNCTION	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, est.
Total ¹	20,780	23,450	25,976	28,208	29,739	33,735	36,115	38,768	44,214	50,479
National defense	10,430	11,884	12,899	13,781	14,946	18,413	22,070	24,936	29,287	34,332
Health	2,351	2,629	2,968	3,401	3,894	3,871	3,869	4,298	4,779	5,408
Energy	1,649	2,562	3,134	3,481	3,603	3,501	3,012	2,578	2,581	2,401
Space research and technology	3,130	2,832	2,839	3,136	2,738	3,111	2,584	2,134	2,300	2,693
General science	858	974	1,050	1,119	1,233	1,340	1,359	1,502	1,676	1,873
Natural resources and environment	683	753	904	1,010	999	1,061	965	952	963	1,033
Transportation	631	708	768	798	887	868	791	876	1,040	1,051
Agriculture	383	457	501	552	585	659	693	745	762	819
Education, training, employment ²	255	230	345	354	468	298	228	189	200	215
Veterans benefits and services	98	107	111	123	126	143	139	157	218	193
International affairs	42	66	57	117	125	160	165	177	192	217
Commerce and housing credit	69	71	77	93	101	106	104	107	110	116
Community and regional develop	109	101	92	127	119	104	63	44	46	43

¹ Includes functions not shown separately. ² Includes social services.

Source: U.S. National Science Foundation, *Federal R&D Funding by Budget Function*, annual.

NO. 998. FEDERAL OBLIGATIONS FOR RESEARCH, BY FIELD OF SCIENCE: 1976 TO 1985

[In millions of dollars. For years ending June 30 except, beginning 1977, ending Sept. 30. See headnote table 997]

FIELD	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, est.
Research, total	7,619	8,514	9,607	10,535	11,597	12,213	13,022	14,254	14,979	15,887
Basic	2,768	3,259	3,699	4,193	4,674	5,041	5,482	6,260	7,067	7,787
Applied	4,852	5,256	5,908	6,342	6,923	7,172	7,540	7,993	7,911	8,100
Life sciences	2,650	3,008	3,427	3,848	4,192	4,436	4,746	5,178	5,636	6,292
Engineering	2,069	2,118	2,405	2,572	2,830	3,072	3,387	3,517	3,624	3,504
Physical sciences	1,259	1,530	1,646	1,793	2,001	2,221	2,500	2,891	2,969	3,036
Environmental sciences	769	906	1,025	1,101	1,261	1,121	1,148	1,251	1,276	1,358
Mathematics and computer sciences	158	198	216	210	241	279	350	419	440	579
Social sciences ¹	393	428	490	527	524	497	386	435	436	463
Economics	138	143	163	182	193	207	157	166	147	152
Psychology	144	156	193	197	199	209	218	241	267	293
Other sciences	179	179	206	287	350	379	287	320	331	383

¹ Includes other sciences not shown separately.

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

NO. 999. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: 1976 TO 1986

[In millions of dollars except percent. 1976, year ending June 30; thereafter, ending Sept. 30. See *Historical Statistics, Colonial Times to 1970*, series W 142, for total R&D expenditures. Minus sign (-) indicates decline]

AGENCY	1976	1981	1982	1983	1984	1985, est.	PERCENT CHANGE			
							1983-84	1984-85	1985-86	1986, est.
Total	20,780	33,104	36,433	38,712	42,225	49,452	9.1	17.1	13.3	56,013
Dept. of Defense	9,655	16,509	20,623	22,993	25,373	30,959	10.4	22.0	22.5	37,933
National Aeronautics and Space Administration	3,447	3,593	3,078	2,662	2,822	3,297	6.0	16.8	13.8	3,753
Dept. of Commerce	229	328	336	335	358	381	6.9	6.4	-27.8	275
Dept. of Energy	¹ 2,464	4,918	4,708	4,537	4,674	4,848	3.0	3.7	-5.2	4,594
Dept. of Health and Human Services	² 2,461	3,927	3,941	4,353	4,831	5,454	11.0	12.9	-5.7	5,143
National Science Foundation	609	962	975	1,062	1,203	1,353	13.3	12.5	6.8	1,445
Dept. of Agriculture	462	774	797	848	866	939	2.1	7.6	-8.1	882
Dept. of Transportation	295	416	310	348	448	482	28.7	7.4	-24.3	365
Dept. of the Interior	333	427	381	363	411	411	7.3	19.5	6.1	331
Environmental Protection Agency	259	326	335	241	261	312	15.0	-21.5	-9.3	136
Nuclear Regulatory Commission	88	220	220	207	191	150	18.0	18.9	-15.9	190
Veterans Administration	98	144	137	161	190	226				
Agency for International Development	36	134	200	227	237	220	4.4	7.2	5.5	232
Dept. of Education ³	123	105	128	112	116	136	3.6	17.2	-13.2	118
Other agencies	219	322	263	243	244	284	.4	16.4	-	248

- Represents zero. ¹ Energy Research and Development Administration. ² Health, Education, and Welfare. See table 528 for complete list of agencies. ³ Includes National Institute of Education, Office of the Assistant Secretary for Education and Office of Education.

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

NO. 1000. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT (R&D), BY INDUSTRY, 1970 TO 1983

[In millions of dollars. Covers basic research, applied research, and development. See also *Historical Statistics, Colonial Times to 1970*, series W 144-160]

SIC ¹ code	INDUSTRY	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
	Total²	16,067	24,187	26,997	29,825	33,304	36,226	44,505	51,810	57,996	62,816
372, 376	Aircraft and missiles.....	5,219	5,713	6,339	7,033	7,536	8,041	9,198	11,968	13,658	13,741
36	Electrical equipment.....	4,220	5,105	5,636	5,886	6,507	7,824	9,175	10,329	11,642	13,651
35	Machinery.....	1,729	3,196	3,487	3,880	4,283	4,825	5,901	6,818	7,835	8,382
28	Chemicals and allied products.....	1,773	2,727	3,017	3,202	3,580	4,038	4,636	5,825	6,659	7,287
371	Motor vehicles, transportation equipment.....	1,591	2,430	2,872	3,478	4,010	4,668	5,117 ³	4,970 ³	4,970 ³	5,537 ³
38	Professional and scientific instruments.....	744	1,173	1,331	1,571	1,998	2,505	3,029	3,614	4,019	4,397
29	Petroleum refining.....	515	693	767	918	1,060	1,262	1,552	(D)	(D)	(D)
33	Primary metals.....	275	443	506	538	560	634	728	878	1,000	1,096
30	Rubber products.....	276	467	502	491	493	577	656	(D)	(D)	(D)
34	Fabricated metal products.....	207	324	358	368	384	455	550	624	568	634
20	Food and kindred products.....	230	335	355	415	472	528	620	(D)	(D)	(D)
26	Paper and allied products.....	178	249	313	333	387	445	495	(D)	626	(D)
32	Stone, clay, and glass products.....	167	233	263	287	324	356	406	(D)	(D)	(D)

D Withheld to avoid disclosure. ¹Standard industrial classification. ² Includes industries not available separately.

³ Estimated.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1001. COMPANIES PERFORMING RESEARCH AND DEVELOPMENT (R&D)—SELECTED DATA, BY INDUSTRY GROUP: 1975 TO 1983

SIC ¹ code	INDUSTRY GROUP	R & D FUNDS (mil. dol.)				R & D FUNDS AS PERCENT OF NET SALES				R & D SCIENTISTS/ENGINEERS ² (1,000)			
		1975	1980	1982	1983	1975	1980	1982	1983	1975	1980	1982	1983
	Total³	24,187	44,505	57,996	62,816	3.1	3.0	3.8	3.8	363.3	450.6	509.8	522.1
372, 376	Aircraft and missiles.....	5,713	9,196	13,658	13,741	12.7	13.7	17.7	15.8	67.5	85.9	91.1	85.5
36	Electrical equipment.....	5,105	9,175	11,642	13,651	6.5	6.6	7.7	8.6	82.6	94.5	109.8	110.3
35	Machinery.....	3,196	5,901	7,835	8,382	4.8	5.0	5.5	5.8	52.8	62.1	76.0	76.3
28	Chemicals and allied products.....	2,727	4,636	6,659	7,287	3.7	3.6	4.3	4.4	45.2	51.4	61.6	29.0
371	Motor vehicles, transport. equipment.....	2,430	5,117 ⁴	4,970 ⁴	5,537 ⁴	3.3	3.9 ⁴	4.1 ⁴	3.8	27.9	39.7	31.2	30.9
38	Professional and scientific instruments.....	1,173	3,029	4,019	4,387	5.9	7.5	8.9	9.3	17.9	32.8	(NA)	(NA)
29	Petroleum refining.....	515	(D)	(D)	(D)	7	6	(D)	(D)	8.4	10.8	15.6	14.7
33	Primary metals.....	443	728	1,000	1,096	8	7	(D)	(D)	6.3	8.1	8.4	8.4
30	Rubber products.....	467	656	(D)	(D)	2.5	2.2	(D)	(D)	8.4	(NA)	8.1	(NA)
34	Fabricated metal products.....	324	550	568	634	1.2	1.4	1.3	1.5	7.4	7.8	8.2	(NA)
20	Food and kindred products.....	335	620	(D)	(D)	4	4	(D)	(D)	6.8	7.2	7.4	7.8
26	Paper and allied products.....	249	495	626	(D)	9	1.0	1.2	(D)	5.0	7.4	8.4	8.3
32	Stone, clay, and glass products.....	233	406	(D)	(D)	1.2	1.4	(D)	(D)	4.5	5.4	5.1	5.0

D Withheld to avoid disclosure. NA Not available. ¹ Standard industrial classification.

² As of January. ³ Includes industries not available. ⁴ Estimated.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1002. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1970 TO 1983

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Total and nonscience/engineering activities for 1981-1983 are estimates based on revised student aid data from the Dept. of Education. Minus sign (—) indicates decrease]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total Federal obligations.....	3,237	4,480	4,547	5,403	6,490	7,472	7,501	8,298	8,640	8,776	9,335
Annual percent change ¹	-6.5	16.7	1.5	18.8	20.1	15.4	1.8	9.1	4.1	1.6	6.4
Academic science/engineering obligations.....	2,188	2,737	2,806	2,960	3,351	3,960	4,473	4,803	5,072	5,236	5,738
Percent of total.....	67.6	61.1	61.7	54.8	51.6	53.0	58.8	57.9	58.7	59.7	61.5
Research and development.....	1,447	2,085	2,248	2,431	2,803	3,386	3,674	4,160	4,410	4,554	5,024
Research and development plant.....	45	29	45	24	36	34	32	38	28	31	38
Other science/engineering activities.....	696	623	515	505	512	540	567	606	634	651	677
Nonscience/engineering activities.....	1,049	1,743	1,741	2,443	3,138	3,512	3,131	3,495	3,569	3,540	3,597

¹ For 1970, change from 1969, for 1974, change from 1973.

Source: U.S. National Science Foundation, *Survey of Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, annual.

**NO. 1003. NOBEL PRIZE LAUREATES IN CHEMISTRY, PHYSICS, AND PHYSIOLOGY/MEDICINE—
SELECTED COUNTRIES: 1901 TO 1984**

[Presented by location of award-winning research and by date of award]

COUNTRY	1901-1984				1901-1915	1916-1930	1931-1945	1946-1960	1961-1975	1976-1984
	Total	Phys-ics	Chem-istry	Physi-ology/ Medi-cine						
Total	365	125	101	139	52	41	49	74	92	57
United States.....	135	49	27	59	3	3	14	38	41	36
United Kingdom.....	68	21	24	23	7	8	11	14	20	8
Germany, Fed. Rep. of ¹	51	14	25	12	15	12	11	4	8	1
Japan.....	4	3	1	—	—	—	—	1	5	1
France.....	21	8	6	7	10	3	2	—	1	1
Soviet Union.....	10	7	1	2	2	—	—	4	3	1
Other countries.....	78	23	17	36	15	15	11	14	15	9

— Represents zero. ¹ Includes East Germany before 1946.

Source: U.S. National Science Foundation, unpublished data.

**NO. 1004. NATIONAL RESEARCH AND DEVELOPMENT EXPENDITURES AS A PERCENT OF GROSS
NATIONAL PRODUCT, BY COUNTRY: 1965 TO 1984**

YEAR	Unit- ed States	France ¹	Ger- many, Fed. Rep.	Japan	Unit- ed King- dom	Soviet Union	YEAR	Unit- ed States	France ¹	Ger- many, Fed. Rep.	Japan	Unit- ed King- dom	Soviet Union
1965.....	2.9	2.0	1.7	1.5	(NA)	2.9	1975.....	2.3	1.8	2.2	2.0	2.2	3.8
1966.....	2.9	2.1	1.8	1.5	2.3	2.9	1976.....	2.3	1.8	2.1	1.9	(NA)	3.6
1967.....	2.9	2.1	2.0	1.5	2.3	2.9	1977.....	2.2	1.8	2.1	1.9	(NA)	3.5
1968.....	2.8	2.1	2.0	1.6	2.3	(NA)	1978.....	2.2	1.8	2.2	2.0	2.2	3.5
1969.....	2.7	1.9	1.8	1.6	2.3	3.0	1979.....	2.3	1.8	2.4	2.1	(NA)	3.6
1970.....	2.6	1.9	2.1	1.8	(NA)	3.3	1980.....	2.4	1.8	2.4	2.2	(NA)	3.8
1971.....	2.5	1.9	2.2	1.9	(NA)	3.5	1981.....	2.4	2.0	2.5	2.4	2.5	3.7
1972.....	2.4	1.9	2.2	1.9	2.1	3.7	1982.....	2.6	2.1	2.6	2.5	(NA)	3.7
1973.....	2.3	1.8	2.1	1.9	(NA)	3.8	1983.....	2.6	2.2	2.6	2.6	(NA)	3.7
1974.....	2.3	1.8	2.1	2.0	(NA)	3.7	1984.....	2.6	2.2	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Percent of gross domestic product.

Source: U.S. National Science Foundation, *Science Indicators*, biennial; and *National Patterns of Science and Technology Resources*, annual.

**NO. 1005. RESEARCH AND DEVELOPMENT (R&D) EXPENDITURES IN SCIENCE AND ENGINEERING AT
UNIVERSITIES AND COLLEGES: 1980 TO 1983**

[In millions of dollars. Estimates for nonrespondents account for less than 8 percent of the total]

CHARACTERISTIC	1980	1981	1982	1983	CHARACTERISTIC	1980	1981	1982	1983
Total	6,060	6,818	7,261	7,745	Field:				
In 1972 dollars ¹	3,412	3,491	3,469	3,559	Life sciences.....	3,218	3,674	3,973	4,210
Basic research.....	4,026	4,576	4,849	5,214	Engineering.....	864	960	1,024	1,101
Applied R&D.....	2,034	2,242	2,411	2,531	Physical sciences.....	678	767	822	890
Source of funds:					Environmental sciences.....	509	560	569	618
All Governments.....	4,587	5,107	5,343	5,559	Social sciences and other.....	488	517	506	511
Institutions' own funds.....	827	974	1,068	1,231	Economics.....	90	100	95	95
Industry.....	237	291	330	370	Mathematics and computer sciences.....	193	222	245	278
Other.....	409	446	500	585	Psychology.....	111	129	132	137

¹ Based on GNP implicit price deflator, see text, p. 427.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Expenditures at Universities and Colleges*, annual.

NO. 1006. SCIENTISTS AND ENGINEERS EMPLOYED IN RESEARCH AND DEVELOPMENT: 1970 TO 1984

[In thousands of full-time equivalent employees. Yearly averages for industry sector only. Excludes those employed by State and local government agencies, except as noted, DOD=Dept. of Defense. FFRDC's=federally funded R&D centers]

SECTOR	1970	1975	1977	1978	1979	1980	1981	1982	1983 ¹	1984 ¹
Total	546.6	532.7	568.2	594.2	622.0	658.7	690.5	707.1	722.7	744.0
Industry (excl. social scientists) ²	375.6	363.8	393.6	414.2	437.2	469.2	498.8	516.0	530.0	548.3
Universities and colleges, total.....	68.5	69.8	74.4	76.6	78.6	81.2	83.3	84.0	85.8	88.0
Scientists and engineers.....	50.3	51.2	54.4	56.0	56.9	57.9	58.9	59.5	60.3	61.9
Graduate students.....	18.2	18.6	20.0	20.6	21.7	23.3	24.4	24.5	25.5	26.1
Federal Government (incl. DOD).....	69.8	63.4	62.2	64.3	64.6	65.6	66.0	64.1	64.1	64.5
University-associated FFRDC's.....	11.5	12.7	14.0	14.1	14.1	15.2	15.4	15.4	15.3	15.2
Other nonprofit institutions ²	21.2	23.0	24.0	25.0	27.5	27.5	27.0	27.0	27.5	28.0

¹ Estimated. ² Includes professional R&D personnel employed at FFRDC's administered by industry and other nonprofit institutions. ³ Includes estimate for R&D scientists and engineers employed in State-affiliated institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

NO. 1007. SCIENTISTS AND ENGINEERS, BY FIELD, LABOR FORCE STATUS, AND SEX: 1980 TO 1983

[In thousands, except percent. Represents the total science and engineering population in the United States]

FIELD	1980			1982			1983		
	Total		In labor force	Total		In labor force	Total		In labor force
	Number	Percent female		Number	Percent female		Number	Percent female	
Total, all fields.....	3,083	11.5	2,917	3,506	12.5	3,327	3,734	13.2	3,545
Engineers, total.....	1,800	3.0	1,701	1,987	3.3	1,883	2,086	3.4	1,978
Scientists, total.....	1,283	23.4	1,216	1,519	24.5	1,444	1,648	25.6	1,567
Life scientists.....	313	19.2	295	366	21.5	346	400	23.0	378
Computer specialists.....	215	28.7	210	309	27.3	302	361	28.8	353
Physical scientists.....	235	10.3	220	244	10.6	233	259	10.6	242
Social scientists.....	229	29.5	214	264	30.0	250	275	30.8	260
Economists.....	84	15.9	78	114	18.8	108	124	20.0	117
Other social scientists.....	145	37.3	136	151	38.4	142	151	39.6	142
Psychologists.....	137	39.4	132	149	40.9	143	155	42.2	148
Environmental scientists.....	84	14.2	79	95	14.9	90	94	34.3	89
Mathematical scientists.....	70	29.6	66	86	32.8	81	104	16.1	98

Source: National Science Foundation, *U.S. Scientists and Engineers*, and unpublished data.

NO. 1008. CHARACTERISTICS OF EMPLOYED SCIENTISTS AND ENGINEERS: 1983

[Percent distribution, except as indicated. Represents the total science and engineering employment in the United States]

CHARACTERISTIC	Total	Engineers	Life scientists	Computer specialists	Physical scientists	Social scientists			Psychologists	Environmental scientists	Mathematical scientists
						Total	Economists	Other social scientists			
Total (1,000).....	3,466	1,940	368	349	236	247	113	135	144	95	87
Male.....	87.3	96.7	78.2	72.1	90.2	70.6	80.8	62.0	58.7	84.6	66.6
Female.....	12.7	3.3	21.8	27.9	9.8	29.4	19.2	38.0	41.3	15.4	33.4
Highest degree:											
Doctorate.....	10.5	3.2	24.6	3.0	28.1	21.8	13.5	28.8	32.5	18.5	20.0
Master's.....	28.3	21.0	28.5	27.7	31.8	34.5	43.7	26.9	45.4	32.2	53.6
Bachelor's.....	52.7	58.1	49.8	68.5	39.7	42.4	41.3	43.2	21.6	48.6	25.0
Other.....	10.5	17.7	3.1	.8	.4	1.3	1.4	1.2	.5	.7	1.4
Type of employer:											
Business, industry.....	67.2	79.6	33.0	79.2	59.7	43.8	51.8	37.1	32.8	62.1	33.1
Educational institutions.....	12.0	2.7	32.4	5.6	21.2	27.4	21.1	32.7	37.7	12.2	46.3
Nonprofit organizations.....	3.4	1.3	6.3	2.8	4.0	7.4	2.9	11.1	18.8	.9	2.8
Federal Government.....	8.8	7.1	16.9	7.0	10.6	9.5	14.4	5.5	2.4	17.2	14.1
Military.....	.5	.6	.2	.5	.3	.4	-	.7	.6	1.2	.1
Other government.....	5.4	4.8	10.0	3.7	2.8	10.0	7.9	12.0	5.8	4.9	2.2
Other.....	2.6	3.6	1.2	1.1	1.4	1.5	1.9	.9	2.0	1.4	1.6

- Represents zero.

Source: U.S. National Science Foundation, *Science and Engineering Personnel: A National Overview* (NSF 85-302) and unpublished data.

NO. 1009. RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS—AVERAGE FULL-TIME-EQUIVALENT EMPLOYMENT AND COST, BY INDUSTRY: 1971 TO 1983

[Data are estimates; on average full-time-equivalent (FTE) basis. See *Historical Statistics, Colonial Times to 1970*, series W 167, for total cost per scientist or engineer]

INDUSTRY	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Average FTE of scientists and engineers (1,000).....	358.6	354.0	358.9	361.7	363.8	373.6	393.6	414.2	437.3	489.2	498.8	516.0	529.9
Chemicals ¹	41.9	41.0	41.4	43.5	44.8	45.4	47.4	49.2	50.7	53.1	58.2	63.8	66.7
Machinery.....	43.2	45.0	48.7	51.9	54.3	55.5	56.8	59.0	61.2	65.7	72.6	76.2	75.9
Electrical equipment ²	87.7	84.5	84.0	82.6	81.5	82.2	84.3	84.7	89.8	100.7	108.4	110.0	113.9
Motor vehicles ³	29.0	29.8	29.6	28.6	27.5	28.6	32.0	35.5	38.5	38.1	33.9	31.0	28.9
Aircraft and missiles.....	74.5	71.5	71.4	69.1	67.2	69.5	77.0	84.3	86.2	90.6	93.2	93.3	96.5
Other industries.....	82.3	82.2	83.8	86.0	88.5	92.4	96.3	101.5	110.9	121.0	132.5	141.7	145.0
Cost per scientist or engineer (\$1,000).....	51.1	55.3	59.2	63.3	66.5	72.2	75.8	80.4	87.4	94.9	103.9	112.4	118.5
Chemicals ¹	43.7	47.1	51.1	56.3	60.9	66.5	67.6	72.8	79.6	87.4	96.7	104.4	109.2
Machinery.....	43.1	48.0	52.4	57.5	58.9	62.8	68.6	72.6	78.9	89.9	93.9	102.9	110.4
Electrical equipment ²	50.1	55.4	58.4	60.7	62.7	68.6	69.9	76.8	87.2	91.1	95.3	105.8	119.9
Motor vehicles ³	61.0	67.4	83.7	86.8	88.4	100.4	108.8	113.0	121.2	134.3	146.6	162.9	185.9
Aircraft and missiles.....	65.5	68.2	70.8	76.4	85.1	91.3	91.3	89.4	93.3	101.6	129.4	146.4	142.4
Other industries.....	43.6	46.5	49.6	54.5	56.7	61.1	65.9	72.8	79.6	86.6	91.3	93.4	96.1

¹ Includes allied products.² Includes communication.³ And other transportation equipment.Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1010. CIVILIAN EMPLOYMENT OF SCIENTISTS, ENGINEERS, AND TECHNICIANS IN PRIVATE INDUSTRY, BY OCCUPATION AND MAJOR INDUSTRIAL SECTOR: 1982

(In thousands. Covers wage and salary workers)

OCCUPATION	Total	Mining ¹	Construction	Manufacturing	Transportation	Communications	Public utilities	Trade	Finance, insurance, real estate	Services
Scientists and engineers.....	1,560.4	71.9	48.6	749.4	12.0	45.6	39.7	76.1	55.8	461.3
Scientists.....	544.7	35.4	1.5	161.3	4.3	4.5	7.2	30.6	50.3	249.6
Physical scientists.....	166.3	28.1	.2	89.9	.4	(2)	1.0	2.7	.4	43.6
Life scientists.....	35.4	(2)	.2	10.0	(2)	(2)	(2)	1.0	(2)	24.2
Mathematical scientists.....	16.1	.8	(2)	8.2	(2)	(2)	(2)	.3	.8	6.0
Social scientists.....	61.6	1.3	.2	2.2	.7	.2	2.4	.4	17.8	36.4
Psychologists.....	54.8	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	54.8
Systems analysts, EDP.....	210.5	5.2	.9	51.0	3.2	4.3	3.8	26.2	31.3	84.6
Engineers ²	1,015.7	36.5	47.1	588.1	7.7	41.1	32.5	45.5	5.5	211.7
Civil engineers.....	87.0	1.2	16.0	8.9	1.7	.9	2.5	1.8	.7	53.3
Electrical/electronics engineers.....	286.2	3.7	6.0	162.7	1.0	29.4	16.0	11.9	.3	55.2
Mechanical engineers.....	192.1	1.9	9.4	118.8	2.2	1.9	5.6	9.6	.4	52.3
Technicians, except health³..	1,303.6	33.5	39.3	501.3	63.2	52.4	41.5	112.8	14.3	445.3
Drafters.....	285.0	7.2	18.8	112.2	.7	5.7	13.1	5.6	2.1	119.6
Electrical/electronic technicians.....	353.3	2.7	10.1	137.7	3.9	36.7	11.7	91.9	(2)	58.6
Surveyors.....	29.2	2.8	3.5	1.1	.6	.5	1.4	(2)	.2	19.1
Computer programmers.....	241.7	3.4	1.4	73.1	3.3	4.5	3.7	18.9	39.9	93.5

Z Fewer than 50. ¹ Includes oil and gas extraction. ² Includes engineers and technicians not shown separately.
Source: U.S. Bureau of Labor Statistics, unpublished data.

NO. 1011. SCIENTISTS AND ENGINEERS—EMPLOYMENT IN INSTITUTIONS OF HIGHER EDUCATION, BY FIELD: 1980 TO 1984

(In thousands. As of January. Includes full-time and part-time personnel. Excludes graduate students who receive stipends for part-time services as scientists or engineers. R and D=research and development)

FIELD	1980	1982	1983	1984	FIELD	1980	1982	1983	1984
Total.....	339.3	364.4	373.9	385.6	Math. and computer scientists.....	36.0	42.2	45.7	49.3
Universities, colleges.....	324.2	349.1	358.9	370.4	Life scientists ¹	133.7	146.3	151.4	156.3
Engineers ¹	33.7	36.3	37.7	39.0	Agricultural.....	15.9	16.4	16.7	17.0
Civil.....	5.5	6.1	6.4	6.2	Biological.....	44.8	46.8	48.1	48.6
Electrical.....	8.2	9.0	9.6	10.4	Medical.....	67.1	72.8	74.4	75.9
Mechanical.....	6.1	6.6	6.7	7.1	Psychologists.....	23.3	23.7	23.8	24.0
Physical and environmental science ¹	43.5	44.7	44.9	46.1	Social scientists ¹	54.1	55.8	55.4	55.8
Chemists.....	17.6	18.1	18.3	18.8	Economists.....	14.7	15.5	15.6	15.8
Earth scientists.....	6.8	6.7	6.5	6.7	Federally funded R & D centers.....	15.1	15.1	15.1	15.2
Physicists.....	13.0	13.3	13.6	13.6	Engineers.....	6.5	6.6	6.5	6.0
					Scientists.....	8.6	8.6	8.6	9.2

¹ Includes other breakdown not shown separately.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Personnel Employed in Universities and Colleges*, annual.

NO. 1012. PROFESSIONAL SCIENTIFIC, ENGINEERING, AND TECHNICAL PERSONNEL IN THE FEDERAL GOVERNMENT, BY OCCUPATIONAL GROUP: 1970 TO 1983

(In thousands, except percent. As of October. Excludes health professional personnel)

OCCUPATIONAL GROUP	1970	1975	1979	1980	1981 ¹	1983 ^{1,2}	PERCENT FEMALE					
							1970	1975	1979	1980	1981 ¹	1983 ^{1,2}
Total.....	180.3	188.9	203.6	206.9	207.9	218.9	6.7	6.5	8.3	9.5	10.3	11.8
Scientific personnel.....	77.2	77.3	85.6	88.0	88.9	89.5	8.0	8.8	11.5	12.7	13.2	14.1
Physical sciences.....	29.8	27.1	27.6	27.6	27.4	27.1	6.4	6.6	8.4	9.5	10.0	10.9
Mathematics and statistics.....	8.6	10.0	10.9	11.1	10.9	10.7	17.4	15.9	18.7	19.8	19.9	20.9
Life sciences.....	26.9	26.4	29.5	30.5	32.4	33.5	4.1	5.1	7.5	8.7	9.8	11.3
Social sciences ³	6.6	8.0	10.3	10.5	8.9	9.3	16.2	17.6	22.2	23.3	23.1	22.8
Economics.....	4.3	5.0	5.8	5.9	5.5	5.3	11.1	12.9	16.0	17.4	18.1	18.4
Other Social Sciences.....	2.3	3.0	4.5	4.6	3.4	4.0	25.1	23.7	30.2	30.8	31.2	28.7
Geography and cartography.....	3.3	2.9	4.1	4.9	5.2	5.5	8.5	7.9	11.9	14.8	15.7	16.6
Psychology.....	2.2	2.9	3.2	3.3	3.4	3.3	13.7	14.6	16.7	16.8	17.5	18.8
Engineering personnel.....	83.0	86.6	88.8	89.6	87.9	94.3	.5	.7	1.3	1.9	2.3	3.9
Computer specialists.....	20.1	25.0	29.3	29.3	31.1	35.2	21.1	19.1	20.1	23.3	24.7	27.9

¹ Excludes Tennessee Valley Authority. ² Excludes Post Office. ³ Includes community planning.

Source: U.S. National Science Foundation. Compiled from data supplied by the U.S. Office of Personnel Management.

**NO. 1013. GRADUATE SCIENCE AND ENGINEERING STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS,
BY FIELD, ENROLLMENT STATUS, AND LEVEL OF STUDY: 1975 TO 1983**

[In thousands. As of fall. Includes outlying areas]

FIELD OF SCIENCE	STUDENTS ENROLLED FULL TIME									STUDENTS ENROLLED PART TIME		
	Total			First year			Beyond first year					
	1975	1980	1983	1975	1980	1983	1975	1980	1983	1975	1980	1983
Total	210.3	230.5	243.6	79.2	77.3	78.3	131.2	153.2	165.3	83.4	103.1	114.6
Engineering	37.1	41.9	53.5	16.4	15.7	18.9	20.6	26.2	34.6	27.5	28.2	32.5
Physical sciences	21.3	22.3	24.5	6.0	5.7	6.4	15.3	16.5	18.1	3.3	3.1	3.2
Environmental sciences	9.0	10.3	11.5	3.3	3.4	3.5	5.7	6.9	7.9	2.0	2.5	2.8
Mathematical/computer sciences	14.1	15.3	19.6	5.4	5.5	6.7	8.7	9.7	12.9	7.2	9.7	14.0
Life sciences	59.6	67.7	65.2	23.3	23.0	20.6	36.3	44.7	44.6	14.0	23.0	26.4
Psychology	19.7	21.6	21.3	5.7	5.7	5.4	14.0	15.9	15.9	7.2	7.8	7.8
Social sciences	49.5	51.5	48.1	19.0	18.3	16.8	30.5	33.2	31.3	22.3	28.9	28.2
Economics	8.0	8.9	8.9	3.1	2.9	2.7	4.9	6.1	6.2	3.0	3.3	3.5

Source: U.S. National Science Foundation, *Survey of Graduate Science and Engineering Students and Postdoctorates*, annual.

**NO. 1014. SCIENCE AND ENGINEERING DEGREES CONFERRED, BY RECIPIENTS' CHARACTERISTICS,
1975 TO 1984, AND BY SELECTED FIELDS, 1984**

CHARACTERISTIC	ALL FIELDS				1984								
	1975	1980	1983	All fields	Engineering	Physical sciences ²	Mathematics and computer sciences	Psychology	Biological sciences ³	Social sciences ⁴			
										Total	Economics	Other social sciences ⁵	
Doctorates conferred	32,913	30,982	31,219	31,253	2,915	3,459	994	3,223	3,872	2,159	795	1,364	
Percent with master's degree	81.3	80.9	80.0	80.4	88.8	53.2	77.6	80.1	51.2	83.5	75.8	87.9	
Percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Male	78.1	69.7	66.6	65.9	94.8	85.4	84.8	49.9	68.7	70.8	84.4	62.8	
Female	21.9	30.3	33.4	34.1	5.2	14.6	15.2	50.1	31.3	29.2	15.6	37.2	
White ⁶	79.8	84.6	86.8	86.6	76.4	87.4	85.1	89.9	89.6	84.9	84.6	85.0	
Black and other ⁶	12.1	10.5	10.7	10.9	19.9	9.4	11.6	8.6	7.7	3.0	13.1	11.6	
Not reported ⁶	8.1	4.9	2.5	2.5	3.6	3.2	3.3	1.6	2.7	12.1	2.3	3.3	
U.S. citizens	82.1	81.0	77.9	76.6	42.5	73.6	58.8	90.1	84.7	69.4	56.0	77.3	
Foreign citizens	15.9	15.9	18.5	19.3	52.9	23.5	37.6	4.3	12.2	25.6	39.9	17.4	
Citizenship unknown	2.0	3.1	3.6	4.1	4.6	2.9	3.6	5.6	3.1	5.0	4.2	5.3	
Median age at award ⁷ (yr.)	31.5	32.2	32.8	33.0	30.7	29.5	30.5	32.3	30.4	32.9	31.3	33.8	
Median total time, ⁷ baccalaureate to doctorate (yr.)	8.6	9.3	9.8	10.0	8.0	7.0	8.1	9.2	7.8	9.9	8.6	10.6	
Registered time (yr.)	5.9	6.3	6.6	6.7	5.8	6.0	6.2	6.9	6.3	7.3	6.3	7.8	
Master's conferred (1,000)	294	299	291	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Bachelor's conferred ⁸ (1,000)	988	1,011	1,054	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

NA Not available. ¹ Includes other fields, not shown separately. ² Astronomy, physics, chemistry, and earth sciences. ³ Biochemistry, botany, microbiology, physiology, zoology, and related fields. ⁴ Anthropology, sociology, economics, political science, public administration, and international relations. ⁵ Data not strictly comparable to those shown in table 1015; see source for details. ⁶ 1980-1984 data on race limited to U.S. citizens and non-U.S. citizens with permanent visas. ⁷ For definition of median, see Guide to Tabular Presentation. ⁸ Includes first professional degrees.

Source: U.S. National Science Foundation. Data from National Research Council, *Summary Report, 1984: Doctorate Recipients from United States Universities*.

NO. 1015. SCIENCE AND ENGINEERING DOCTORATES CONFERRED: 1970 TO 1984

[For year ending June 30. See also *Historical Statistics, Colonial Times to 1970*, series H 767-771, 774, and 776-780]

FIELD OF SCIENCE	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
Science doctorates conferred	17,731	18,352	17,373	17,034	17,230	17,195	17,623	17,614	17,932	18,069
Life sciences	4,163	4,402	4,268	4,361	4,495	4,710	4,783	4,840	4,751	4,869
Biological sciences	3,850	3,498	3,484	3,508	3,640	3,798	3,801	3,889	3,736	3,872
Agricultural sciences ¹	803	904	782	853	855	912	982	951	1,015	987
Physical sciences	4,400	3,749	3,410	3,234	3,321	3,151	3,208	3,348	3,439	3,459
Chemistry	2,234	1,762	1,570	1,545	1,567	1,538	1,611	1,678	1,759	1,765
Physics and astronomy	1,655	1,293	1,149	1,066	1,108	985	1,015	1,013	1,043	1,080
Earth, environmental, and marine sciences	511	694	691	623	646	628	582	657	637	614
Psychology	1,888	2,749	2,960	3,049	3,081	3,098	3,357	3,154	3,308	3,223
Social sciences	2,626	3,344	3,137	3,008	2,862	2,794	2,787	2,688	2,666	2,609
Economics	826	868	811	778	780	744	808	735	792	768
Other social sciences	1,800	2,476	2,326	2,230	2,082	2,050	1,979	1,953	1,874	1,841
Engineering	3,432	2,959	2,641	2,423	2,494	2,479	2,528	2,644	2,781	2,915
Mathematics and computer sciences	1,222	1,149	959	959	977	963	960	940	987	994

¹ Excludes agricultural economics, included in social sciences.

Source: U.S. National Science Foundation. Data from National Research Council, Doctorate Record File.

NO. 1016. DOCTORAL SCIENTISTS AND ENGINEERS—SELECTED CHARACTERISTICS: 1975 TO 1983

[In thousands]

CHARACTERISTIC	1975	1979	1981	1983		CHARACTERISTIC	1975	1979	1981	1983	
				Number	Employed					Number	Employed
Total	270.5	332.3	363.9	395.0	369.3	Race:					
Field:						White.....	242.4	293.5	322.9	352.3	328.5
Life scientists.....	70.3	86.3	93.8	101.4	92.8	Black.....	2.6	3.7	4.6	5.3	4.9
Physical scientists.....	58.4	64.3	67.7	69.6	64.0	Asian.....	13.1	21.7	27.9	30.9	29.7
Psychologists.....	31.4	40.3	45.4	49.7	46.6	Other and not reported.....	12.4	13.4	8.5	6.6	6.2
Social scientists.....	38.6	54.0	59.2	63.7	59.3	Employment status:					
Economists.....	12.6	14.9	17.1	18.1	17.0	Full-time employed.....	240.6	292.9	322.3	341.9	341.9
Other social scientists.....	26.0	39.1	42.2	45.6	42.4	Part-time employed.....	7.3	10.7	10.7	16.5	16.5
Engineers.....	43.4	51.5	58.3	63.8	61.5	Postdoctorates.....	8.2	10.2	10.5	10.9	10.9
Mathematical scientists.....	14.2	16.1	16.5	17.4	16.4	Unemployed/seeking.....	2.5	2.9	2.6	3.7	(x)
Computer specialists.....	3.5	6.8	9.1	12.3	12.2	Not employed/not seeking.....	2.4	3.6	3.4	3.7	(x)
Environmental scientists.....	12.5	15.1	16.6	17.1	16.5	Retired/not employed.....	8.7	10.3	12.5	13.8	(x)
Sex:						Other.....	.4	.8	.4	.8	(x)
Men.....	244.9	294.4	318.1	340.5	320.5	Not reported.....	.5	.9	1.4	3.7	(x)
Women.....	25.6	37.9	45.7	54.6	48.8						

X Not applicable.

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States*, biennial series.

NO. 1017. DOCTORAL SCIENTISTS AND ENGINEERS, BY SELECTED STATES: 1983

[In thousands. Selected States represent those with more than 4,000 scientists and engineers]

STATE	Total	Natural scientists	Social scientists	Engineers	STATE	Total	Natural scientists	Social scientists	Engineers
Total	395.0	217.7	113.5	63.8	Missouri.....	6.7	3.9	1.8	1.0
Arizona.....	4.2	2.1	1.3	.8	New Jersey.....	17.0	9.4	3.2	4.4
California.....	48.7	25.0	13.4	10.3	New Mexico.....	4.8	2.9	.6	1.3
Colorado.....	8.0	4.7	1.8	1.5	New York.....	37.7	19.5	13.3	4.9
Connecticut.....	7.2	4.3	2.1	.8	North Carolina.....	8.8	5.6	2.2	1.0
District of Columbia.....	11.6	5.0	5.3	1.3	Ohio.....	15.7	8.5	4.3	2.9
Florida.....	9.3	4.5	3.4	1.4	Oklahoma.....	4.2	2.0	1.3	.9
Georgia.....	5.8	3.6	1.5	.7	Oregon.....	4.3	2.4	1.4	.5
Illinois.....	17.6	9.5	5.5	2.6	Pennsylvania.....	19.1	10.3	5.5	3.3
Indiana.....	7.3	4.4	2.0	.9	Tennessee.....	6.6	3.8	1.8	1.0
Louisiana.....	4.9	2.9	1.2	.8	Texas.....	20.4	11.8	4.6	4.0
Maryland.....	14.6	9.4	3.5	1.7	Virginia.....	12.0	6.0	3.6	2.4
Massachusetts.....	17.0	9.2	5.3	2.5	Washington.....	7.6	4.0	2.2	1.4
Michigan.....	12.1	6.9	3.4	1.8	Wisconsin.....	6.5	3.7	2.1	.7
Minnesota.....	7.0	4.2	2.1	.7	Others.....	48.3	28.2	13.8	6.3

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States: 1983*.

NO. 1018. FEDERAL SPACE PROGRAM—BUDGET AUTHORITY, BY AGENCY: 1960 TO 1984

[In millions of dollars, except percent. 1984 estimated. Through 1976, for years ending June 30; thereafter, years ending Sept. 30. NASA = National Aeronautics and Space Administration]

YEAR	Total ¹	NASA ²		Dept. of Defense	Dept. of Commerce	Dept. of Energy ³	YEAR	Total ¹	NASA ²		Dept. of Defense	Dept. of Commerce	Dept. of Energy ³
		Total	Percent of total						Total	Percent of total			
1960.....	1,086	462	49.2	561	(x)	43	1975.....	4,914	2,915	65.7	1,892	64	30
1965.....	6,956	5,138	75.5	1,574	12	229	1976.....	5,320	3,225	66.7	1,983	72	23
1966.....	6,970	5,065	74.2	1,689	27	187	1977.....	5,983	3,440	63.8	2,412	91	22
1967.....	6,710	4,830	74.0	1,664	29	184	1978.....	6,509	3,623	62.4	2,729	103	34
1968.....	6,529	4,430	70.3	1,922	28	145	1979.....	7,419	4,030	61.9	3,211	98	59
1969.....	5,976	3,822	66.8	2,013	20	118	1980.....	8,689	4,680	60.3	3,848	93	40
1970.....	5,341	3,547	70.1	1,678	8	103	1981.....	9,978	4,992	55.3	4,828	87	41
1971.....	4,741	3,101	69.8	1,512	27	95	1982.....	12,091	5,494	45.4	6,362	144	61
1972.....	4,575	3,071	72.3	1,407	31	55	1983.....	15,564	6,328	40.7	9,019	178	39
1973.....	4,825	3,098	70.6	1,623	40	54	1984.....	17,449	6,590	37.8	10,590	235	34
1974.....	4,640	2,759	65.5	1,766	60	42							

X Not applicable. ¹ Includes agencies not shown separately. ² Includes budget authority for the space transportation system of \$3.1 billion in 1962; \$4.1 billion in 1983 and \$4.0 billion in 1984. ³ See footnote 1, table 999.

Source: U.S. National Aeronautics and Space Administration, *Aeronautics and Space Report of the President*, annual. Data from U.S. Office of Management and Budget.

NO. 1019. NASA—OUTLAYS FOR OPERATIONAL ACTIVITIES AND FOR RESEARCH AND DEVELOPMENT: 1965 TO 1985

[In millions of dollars, except percent. For years ending June 30 except, beginning 1980, ending Sept. 30. Minus sign (—) indicates decrease]

YEAR	AGENCY TOTAL		PERFORMANCE (OPERATIONS)			PERFORMANCE (R&D)				FACILITIES (R&D)			
	Total outlays	Percent change	Total operations	Space flight	Other	Total	Space flight	Space science, applications ¹	Air transport and other	Total R&D	Space flight	Space science, applications ¹	Air transport and other
1965.....	5,093	² 22.1	(³)	(³)	(³)	² 4,562	² 3,138	² 1,126	² 298	531	401	78	52
1970.....	3,753	- 11.7	(³)	(³)	(³)	² 3,699	² 2,195	² 963	² 541	54	14	21	19
1975.....	3,266	.3	(³)	(³)	(³)	² 3,181	² 1,500	² 1,076	² 606	85	35	9	42
1980.....	4,850	15.8	1,245	914	331	3,465	1,642	1,341	482	140	38	5	97
1982.....	8,035	11.3	2,706	2,303	403	3,220	1,255	1,442	543	109	17	3	89
1983.....	6,664	10.4	4,018	3,431	587	2,538	596	1,486	456	108	26	—	82
1984.....	7,048	5.8	3,317	2,854	463	3,539	1,183	1,687	689	192	44	20	128
1985, est.....	7,321	3.9	3,813	3,093	720	3,260	800	1,868	592	248	75	22	151

— Represents zero. ¹ Includes technology. ² Change from 1964. ³ Performance (operations) included in performance (R&D).

Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual.

NO. 1020. SPACE VEHICLE SYSTEMS—SALES AND BACKLOG ORDERS: 1965 TO 1983

[In millions of dollars. Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Excludes engines and propulsion units]

YEAR	NET SALES			BACKLOG ORDERS			YEAR	NET SALES			BACKLOG ORDERS		
	Total	Military	Non-military	Total	Military	Non-military		Total	Military	Non-military	Total	Military	Non-military
1965.....	2,449	602	1,847	2,203	503	1,700	1980.....	3,483	1,461	2,022	1,814	951	863
1970.....	1,956	1,025	931	1,184	786	398	1981.....	3,856	1,738	2,120	3,174	2,164	1,010
1975.....	2,119	1,096	1,023	1,304	1,019	285	1982.....	4,749	2,606	2,143	4,337	2,403	1,934
							1983.....	4,983	2,527	2,436	4,661	2,657	2,004

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MQ-37D, *Aerospace Industry (Sales and Orders)*.

NO. 1021. SPACE SHUTTLE SYSTEM EXPENDITURES—ACTUAL, 1972 TO 1984, AND PROJECTED, 1985 TO 1990

[In millions of dollars. For year ending Sept. 30. These data cannot be used alone to estimate the total shuttle cost. Only operating expenditures correspond to an annual cost in the economic sense, and even those estimates require adjustment for the three-year period over which the cost of a shuttle flight is incurred and reimbursements are received. For details, see source]

YEAR	Total	D.D.T. and E ¹	Construction	Production	Operations	YEAR	Total	D.D.T. and E ¹	Construction	Production	Operations
1972.....	40	—	40	—	—	1983.....	3,014	—	26	1,635	1,354
1973.....	58	—	58	—	—	1984.....	3,127	—	73	690	2,364
1974.....	325	216	109	—	—						
1975.....	1,543	1,407	136	—	—	Projections:					
1976.....	2,619	2,541	79	—	—	1985.....	2,529	—	38	557	1,934
1977.....	2,258	2,089	60	109	—	1986.....	2,300	—	39	325	1,936
1978.....	2,062	1,888	103	61	—	1987.....	2,153	—	41	175	1,937
1979.....	2,251	1,713	42	496	—	1988.....	2,038	—	42	65	1,937
1980.....	2,751	1,399	42	907	463	1989.....	1,999	—	44	25	1,930
1981.....	2,724	1,041	13	1,093	578	1990.....	1,999	—	45	25	1,929
1982.....	2,932	894	20	1,283	735						

— Represents zero. ¹ Design, development, testing, and evaluation.

Source: U.S. Congress, Congressional Budget Office, *Pricing Options for the Space Shuttle*, March 1985.

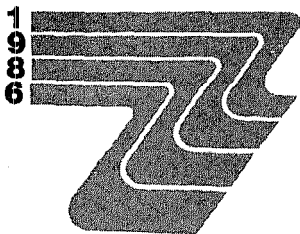
NO. 1022. WORLD-WIDE SUCCESSFUL SPACE LAUNCHES: 1957 TO 1984

[Criterion of success is attainment of Earth orbit or Earth escape. E.S.A. = European Space Agency]

YEAR	Total ¹	Soviet Union	United States	Japan	E.S.A.	India	Mainland China	YEAR	Total ¹	Soviet Union	United States	Japan	E.S.A.	India	Mainland China
Total.....	2,642	1,733	844	27	9	3	14	1975-1979..	607	461	126	10	1	—	6
1957-1959..	21	6	15	—	—	—	—	1980.....	105	89	13	2	—	—	—
1960-1964..	268	76	192	—	—	—	—	1981.....	123	98	18	3	2	1	—
1965-1969..	588	302	279	—	—	—	—	1982.....	121	101	18	1	—	—	1
1970-1974..	555	405	139	5	—	—	2	1983.....	127	98	22	3	2	1	1
								1984.....	129	97	22	3	4	—	3

— Represents zero. ¹ Includes launches in other countries not shown separately.

Source: Library of Congress, Congressional Research Service, Science Policy Research Division, *Space Activities of the United States, Soviet Union, and Other Launching Countries/Organizations*, January 1985.



Section 22

Transportation— Land

This section presents statistics on revenues, passenger and freight traffic volume, and employment in various revenue-producing modes of the transportation industry, including motor vehicles, trains, and pipelines. Data are also presented on commuting travel; highway mileage and finances; motor vehicle travel, accidents, sales, and registrations; automobile operating costs; and characteristics of public transit, railroads, and pipelines.

The principal compiler of data on public roads and on operation of motor vehicles is the U.S. Department of Transportation's (DOT) Federal Highway Administration (FHWA). These data appear in FHWA's annual *Highway Statistics*. The U.S. Interstate Commerce Commission (ICC) presents data on interstate land transport in its publications, the *Annual Report to Congress* and the *Transport Statistics in the United States*, which contain data on railroads and motor carriers subject to ICC regulations.

The U.S. National Highway Traffic Safety Administration issues data on traffic accident deaths and death rates in two annual reports: the *Fact Book* and the *Fatal Accident Reporting System Annual Report*. DOT's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident/Incident Bulletin*, and the *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*.

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in the *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part of the 1980 census and are in various census reports.

Data are also presented in many nongovernment publications. Among them are: The weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, DC; *Bus Facts*, issued annually by the American Bus Association, Washington, DC; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, DC. Useful annual handbooks in the field of transportation are *Motor Vehicle Facts and Figures* and *World Motor Vehicle Data*, issued by the Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI; *Accident Facts*, issued by the National Safety Council, Chicago, IL; and *Transportation in America*, issued by the Transportation Policy Associates, Washington, DC.

Urban and rural highway mileage.—Beginning 1980, mileage is classified in urban and rural categories, rather than municipal and rural. Urban denotes the Federal-aid legislation definition of an area. Such areas include, as a minimum, a census place with a population of 5,000 to 49,999 or a designated urbanized area with a population of 50,000 or more. These Federal-aid urban areas may extend beyond corporate and census boundaries, and thus are not necessarily coextensive with municipal boundaries. Rural in 1980 refers to non-Federal-aid urban area mileage. Prior to 1980, municipal referred to roads within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas and rural to non-municipal roads.

Federal-aid highway systems.—Federal law provides that Federal funds be matched in varying proportions with State funds for the costs of planning, engineering, right-of-way acquisition, and construction of highways. Other costs, such as maintenance and policing, are borne entirely by the States and local agencies.

Effective July 1, 1976, a uniform road classification system was implemented which shortened the mileage of the highway system and redefined the three main systems of Federal-aid routes. The Federal-aid primary system is comprised of a network of main roads important to interstate, statewide, and regional travel. The system consists of main rural roads and their extensions into or through urban areas. The Federal-aid secondary system consists of rural roads of a more local nature, such as those which connect county seats and the larger population centers not served by the primary system. The Federal-aid urban system is located in urban places of 5,000 or more persons and consists of major urban roads and streets, except those on the primary system.

Regulatory bodies.—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders, water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation.

Motor carriers.—For 1960–1973, class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; since 1974, the class I minimum has been \$3 million. Effective January 1, 1980 class I revenue are those with \$5 million or more. For 1960–1968, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969–1976, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more.

Railroads.—Railroad companies reporting to the ICC are divided into specific groups as follows: (1) Regular line-haul (interstate) railroads (and their non-operating subsidiaries); (2) switching and terminal railroads; (3) private railroads prior to 1964 (identified by ICC as “circular” because they reported too late for tabulation. For the most part, the last 3 groups are not included in the statistics shown here.

For years prior to 1978, class I railroads were those with annual revenues of \$1 million or more for 1950–1955; \$3 million or more for 1956–1964; \$5 million or more for 1965–1975; and \$10 million or more for 1976–1977. In 1978, the classification became class I, those having more than \$50 million gross annual operating revenue; class II, from \$10 million to \$50 million; and class III, less than \$10 million. Effective January 1, 1982, the ICC adopted a procedure to adjust the threshold for inflation by restating current revenues in constant 1978 dollars. In 1984, the criteria for class I and class II railroads were \$87.3 million and \$17.5 million, respectively. Also effective January 1, 1982, the ICC adopted a *Carrier Classification Index Survey Form* for carriers not filing annual report form R-1 with the commission. Class II and class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability, see Appendix III.

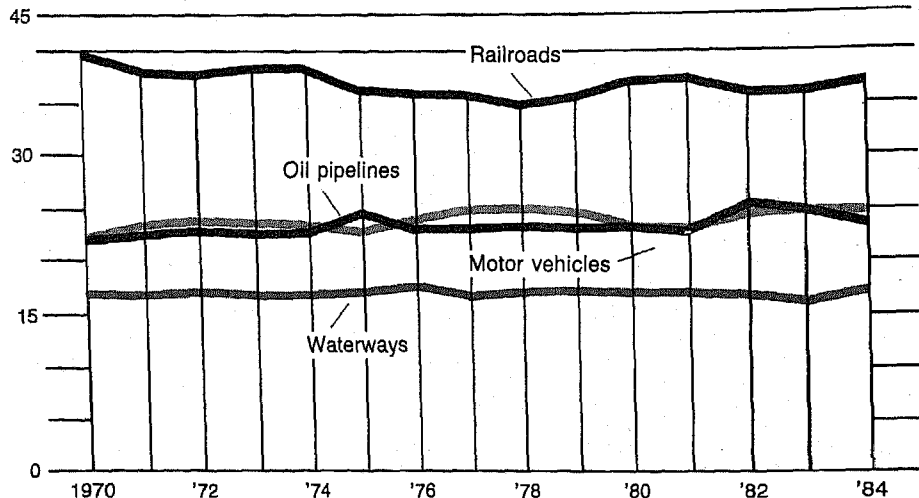
Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1985*. For cross-references, see Appendix VI.

Figure 22.1

Ton-Miles of Domestic Intercity Freight Traffic—Percent Distribution by Type of Transportation: 1970 to 1984

Percent



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1029.

**NO. 1023. PASSENGER AND FREIGHT TRANSPORTATION OUTLAYS, BY TYPE OF TRANSPORT:
1960 TO 1984**

[In billions of dollars. Freight data include outlays for mail and express. ICC=Interstate Commerce Commission]

TYPE OF TRANSPORT	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, est.
Total outlays ¹	105.6	141.0	195.6	297.8	348.9	392.2	446.1	492.4	540.1	598.2	603.3	646.1	713.3
Passenger, total	60.5	82.2	114.9	187.4	221.8	248.3	279.3	307.6	336.9	373.5	377.7	407.2	450.0
Private transportation	53.3	73.0	99.6	161.3	191.8	215.0	241.9	263.9	284.8	317.4	320.6	345.6	385.0
Automobiles ²	52.4	71.6	97.0	158.3	186.5	210.0	235.9	256.8	276.7	308.0	312.4	338.2	376.2
New and used cars	20.4	30.4	32.1	46.0	59.7	70.4	80.4	77.1	73.3	82.6	85.7	105.6	128.2
Tires, tubes, accessories	2.9	4.1	7.1	12.4	13.8	15.8	17.2	19.8	22.2	24.6	24.9	26.9	28.0
Gasoline and oil	16.0	19.6	29.9	53.9	58.6	60.3	78.3	95.7	111.3	108.3	105.9	108.0	108.0
Insurance less claims	2.4	2.8	4.4	4.5	6.4	9.5	10.2	10.3	11.5	10.8	11.2	12.5	14.0
Interest on debt	2.8	3.5	4.7	7.3	8.6	10.4	12.8	15.4	17.5	21.0	21.8	18.0	20.0
Registration and operator's permit fees	1.0	1.3	1.9	2.3	2.7	2.8	3.0	3.1	3.3	3.5	3.8	4.1	4.4
Repair, greasing, washing, parking, tolls ³	6.0	8.2	13.2	22.1	25.0	29.5	33.0	36.7	38.0	41.5	43.5	45.7	50.3
Air	.9	1.4	2.6	4.7	5.2	5.8	5.9	7.1	8.1	9.4	8.2	7.4	8.8
Aircraft	.2	.3	.4	1.0	1.2	1.5	1.7	2.1	2.9	3.8	2.8	1.9	2.5
Operating costs	.7	1.0	2.3	3.8	4.0	4.1	4.2	5.0	5.2	5.6	5.4	5.5	6.3
For-hire transportation	7.2	9.2	15.3	26.2	30.0	33.3	37.3	43.3	52.2	56.1	57.1	61.6	65.0
Local ⁴	3.1	3.4	5.4	10.5	12.1	12.7	13.9	15.4	18.5	20.4	21.3	22.2	21.4
Bus and transit ⁵	1.3	1.5	1.8	4.7	5.8	5.9	6.7	7.5	9.2	10.1	10.3	11.3	10.5
School bus	.5	.7	1.2	2.2	2.4	2.5	2.7	3.2	3.8	4.7	5.6	5.3	5.3
Taxi	1.1	1.1	2.1	3.4	3.8	4.1	4.3	4.5	5.2	6.2	5.0	5.2	5.2
Intercity	3.3	4.4	7.7	12.9	14.9	17.2	19.6	23.3	28.4	30.6	30.4	33.3	37.0
Airline	2.1	3.3	6.6	11.2	13.0	14.9	17.1	20.4	25.1	26.8	26.8	30.0	33.0
Rail ⁶	.6	.5	.3	.8	.9	1.2	1.3	1.4	1.6	1.9	1.8	1.8	2.0
Bus	.6	.6	.8	1.0	1.1	1.1	1.2	1.4	1.7	1.8	1.8	1.8	2.0
International	.9	1.3	2.2	2.7	2.9	3.4	3.8	4.6	5.3	5.3	5.4	6.1	7.0
Freight, total ⁴	46.8	61.1	83.8	115.5	133.2	150.4	174.0	192.9	212.1	234.6	234.7	249.7	275.0
Highway	31.5	43.8	62.5	84.8	98.0	111.4	128.8	142.7	155.4	173.3	177.0	190.0	208.4
Truck, intercity	18.0	23.6	33.6	47.4	56.2	67.4	79.6	90.2	94.6	100.2	101.8	108.8	120.7
ICC regulated	7.2	10.1	14.6	22.0	26.0	31.0	36.5	41.2	43.0	47.9	44.1	46.5	52.1
Non-ICC regulated	10.7	13.6	19.0	25.4	30.2	36.4	43.1	49.0	51.6	52.3	57.7	62.3	68.6
Truck, local	13.5	20.1	28.8	37.3	41.6	43.9	49.1	52.3	60.5	72.8	75.0	80.9	87.7
Rail	9.0	9.9	11.9	16.5	19.2	20.5	21.9	24.8	27.7	30.5	27.1	27.3	29.6
Water	3.3	3.8	5.1	7.9	8.9	10.3	12.4	13.4	14.8	15.7	15.0	15.9	17.8
Oil pipeline	.9	1.1	1.4	2.2	2.5	3.2	5.5	6.2	7.1	7.4	7.9	8.3	9.3

¹ Total outlays less than sum of passenger and freight totals, as estimated freight costs included in costs of new cars, gasoline, oil, tires, and tubes have been excluded to prevent duplication. ² Includes business-owned vehicles. ³ Includes storage and rental. ⁴ Includes items not shown separately. ⁵ Includes Federal, State and local government operating subsidies and capital grants. ⁶ Includes Federal operating subsidies and capital grants for Amtrak.

Source: Transportation Policy Associates, Washington, DC, *Transportation in America*, March 1985, with periodic supplements. (Copyright.)

NO. 1024. PERSONAL CONSUMPTION EXPENDITURES FOR TRANSPORTATION: 1960 TO 1984

[In billions of dollars, except percent. Represents market value of purchases of goods and services by individuals and nonprofit institutions]

TYPE OF PRODUCT OR SERVICE	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Total expenditures	42.4	58.4	80.6	129.4	155.2	179.3	198.1	219.4	236.6	261.5	267.3	291.9	319.5
Percent of total personal consumption ¹	13.1	13.6	13.0	13.3	14.3	14.9	14.7	14.6	14.2	14.1	13.5	13.5	13.6
User-operated transportation	39.1	54.5	74.3	119.7	144.1	167.0	184.6	204.0	218.5	241.7	246.7	269.9	295.7
New autos	14.0	21.4	21.9	29.3	38.1	44.3	48.2	49.1	46.3	50.8	52.8	65.2	75.9
Net purchases of used autos	2.6	3.9	5.3	8.9	11.9	13.2	14.9	15.7	15.5	18.8	20.8	23.0	26.4
Other motor vehicles	.6	1.3	2.9	7.1	10.9	13.9	17.9	14.9	10.1	11.4	14.0	18.2	23.0
Tires, tubes, accessories, other parts	2.5	3.4	6.1	10.5	11.7	13.5	14.7	16.9	18.9	20.9	21.2	22.8	24.6
Repair, greasing, washing, parking ²	5.1	6.9	11.2	18.8	21.3	25.1	28.1	31.2	32.3	34.9	37.0	38.8	42.4
Gasoline and oil	12.0	14.7	22.4	40.4	44.0	48.1	51.2	66.6	84.8	94.6	90.4	90.0	91.4
Bridge, tunnel, ferry, road tolls	.3	.5	.7	.8	.9	.9	.9	.9	1.0	1.0	1.1	1.1	1.3
Insurance premiums less claims paid	2.0	2.4	3.8	3.9	5.4	8.1	8.7	8.8	9.7	9.2	9.5	10.6	10.9
Purchased local transportation ³	2.0	2.1	3.0	4.0	4.4	4.7	5.0	5.4	5.8	6.2	6.8	6.8	7.0
Transit systems	1.3	1.3	1.6	1.9	2.1	2.2	2.3	2.5	2.6	2.9	3.3	3.5	3.8
Taxicab	.6	.6	1.2	1.9	2.1	2.2	2.4	2.7	2.9	2.9	3.1	2.9	2.9
Purchased intercity transportation	1.3	1.9	3.4	5.7	6.7	7.7	8.5	10.0	12.3	13.7	13.8	15.1	16.8
Airline	.7	1.2	2.5	4.4	5.3	6.1	6.9	8.1	10.0	11.1	11.1	12.3	13.8
Bus	.3	.4	.5	.7	.7	.7	.7	.9	1.0	1.1	1.1	1.1	1.1
Railway and other ⁴	.3	.3	.4	.7	.8	.8	.9	1.1	1.3	1.5	1.6	1.8	1.9

¹ See table 728. ² Includes rental and storage. ³ Includes railway commutation, not shown separately. ⁴ Railway excludes commutation; "other" consists of baggage charges, coastal and inland waterway fares, and travel agents' fees.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July issues.

NO. 1025. FEDERAL OUTLAYS FOR TRANSPORTATION, BY FUNCTION: 1980 TO 1985

[In millions of dollars. For years ending Sept. 30, 1985 estimated]

FUNCTION	1980	1983	1984	1985	FUNCTION	1980	1983	1984	1985
Total outlays.....	21,329	21,334	23,669	26,994	Air transportation—Con.				
Ground transportation.....	15,274	14,265	16,158	18,729	Aeronautical research and technology.....	509	563	586	627
Highway const. ¹	8,395	8,505	10,520	13,077	Air carrier subsidies.....	89	54	41	52
Highway safety.....	1,126	227	240	285	Regulation.....	28	24	21	7
Mass transit.....	3,307	3,759	3,611	4,217	Water transportation.....	2,229	2,969	3,010	3,176
Railroads.....	2,367	1,812	2,447	1,105	Marine safety, trans.....	1,607	2,402	2,526	2,642
Regulation.....	79	63	57	54	Ocean shipping.....	611	555	473	525
Air transportation.....	3,723	4,000	4,415	4,866	Regulation.....	11	12	11	12
Airways and airports.....	3,097	3,360	3,767	4,280	Other.....	104	99	85	123

¹ Includes improvement.Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual.

NO. 1026. OPERATING, PASSENGER, AND FREIGHT REVENUES, BY TRANSPORT TYPE: 1970 TO 1983

TYPE OF TRANSPORT	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
OPERATING REVENUES (mil. dol.)										
Air carrier, certificated ¹	9,280	15,356	17,503	19,926	22,892	27,227	33,728	28,788	28,728	31,008
Air carrier, supplemental ¹	337	433	418	516	530	552	782	(NA)	(NA)	(NA)
Bus, class I, intercity.....	722	955	993	983	1,037	1,205	1,311	1,466	1,439	1,277
Local transit.....	(NA)	3,410	3,808	4,184	4,862	5,771	6,638	7,552	7,739	8,742
Oil pipeline.....	1,168	1,874	2,137	2,792	4,907	5,585	6,141	6,678	7,140	7,422
Gas pipeline (transmission companies).....	5,928	11,898	15,416	19,836	22,989	29,919	41,574	50,188	55,847	53,577
Motor carriers of property, class I, intercity.....	11,137	16,164	18,360	22,520	26,855	29,858	30,338	32,531	32,246	33,899
Railroad, class I.....	11,992	16,402	18,537	20,091	21,721	25,219	28,103	30,899	27,504	26,729
Amtrak.....	(2)	253	287	310	321	398	454	512	514	606
Water transport, classes A and B ²	372	946	1,035	924	867	854	937	1,029	990	1,076
Water transport, maritime.....	833	1,342	1,583	1,643	1,889	2,235	(NA)	(NA)	(NA)	(NA)
Freight forwarders, class A.....	211	359	431	615	603	701	721	810	693	628
AVERAGE PASSENGER REVENUE PER PASSENGER-MILE (cents)										
Air carrier, certificated: ⁴ Total.....	6.00	7.69	8.16	8.61	8.49	8.96	11.53	12.74	12.02	12.08
First class.....	8.30	10.58	11.50	12.21	11.97	11.43	14.35	14.14	13.82	14.63
Coach plus economy.....	5.45	7.05	7.49	7.92	7.81	8.34	10.87	12.37	11.53	11.38
Railroad, class I: ⁴ Total.....	3.91	4.99	5.65	5.74	5.86	6.02	6.15	6.06	6.47	9.23
Commutation.....	3.75	4.57	5.04	5.07	5.20	5.97	5.82	6.76	7.06	7.64
Other than commutation.....	4.02	6.25	7.60	7.85	7.84	7.93	8.39	10.49	11.42	12.35
Amtrak.....	(2)	5.66	5.56	5.83	6.08	6.59	8.18	8.66	9.75	10.65
Bus, class I, intercity.....	3.50	4.85	5.14	5.18	5.62	6.21	7.26	6.35	8.18	8.92
AVERAGE FREIGHT REVENUE PER TON-MILE (cents)										
Air carrier, certificated ⁴	21.91	28.22	31.81	34.20	37.10	41.02	46.29	46.69	46.78	44.87
Railroad, class I.....	1.43	2.04	2.20	2.29	2.36	2.60	2.85	3.18	3.21	3.11
Motor carriers of property, class I intercity:										
Common.....	7.46	9.20	9.97	10.85	11.20	11.97	12.91	13.98	14.09	13.55
Contract.....	6.86	7.80	8.20	9.05	12.97	13.50	11.78	11.55	12.03	11.41
Oil pipelines.....	.27	.37	.41	.54	.86	.94	1.03	1.18	1.25	1.29
Water carriers, classes A and B.....	.43	.77	.74	.81	.84	.90	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Domestic and international. ² Amtrak established May 1, 1971. ³ Inland and coastal.⁴ Scheduled service (domestic). ⁵ Excludes Amtrak and Auto-Train service.Source: U.S. Dept. of Transportation, Transportation Systems Center, *National Transportation Statistics*, annual.

NO. 1027. EMPLOYMENT AND EARNINGS IN TRANSPORTATION, BY INDUSTRY: 1970 TO 1984

[Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series C 36-42]

SIC ¹ code	INDUSTRY	NUMBER (1,000)						AVERAGE WEEKLY EARNINGS (dol.)					
		1970	1980	1981	1982	1983	1984	1970	1980	1981	1982	1983	1984
(x)	Total.....	2,684	2,962	2,922	2,788	2,745	2,929	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
40	Railroads.....	634	532	495	429	376	369	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
4011	Class I railroads.....	568	462	457	398	348	342	172	427	458	484	542	573
41	Local and interurban passengers.....	269	255	265	263	257	269	(NA)	217	231	248	252	258
421, 3	Trucking, incl. terminals.....	999	1,169	1,168	1,125	1,132	1,231	164	366	395	401	408	415
422	Public warehousing.....	84	91	89	84	85	94	121	248	266	277	287	307
44	Water transportation.....	213	213	219	202	191	189	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
45	Air transportation.....	352	453	455	444	455	493	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
46	Pipelines, exc. natural gas.....	18	21	22	21	20	19	189	441	491	536	586	587
47	Transportation services.....	115	198	210	220	229	256	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Standard Industrial Classification, see text, p 388.Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

No. 1028. 50 LARGEST TRANSPORTATION COMPANIES—REVENUES AND ASSETS, BY RANK OF OPERATING REVENUES: 1981 TO 1983

(In billions of dollars, except percent. Revenues include nontransportation activities; assets as of end of companies' fiscal year. Companies listed derive more than 50 percent of their operating revenues from the transport of passengers and/or freight (e.g., railroads, airlines, motor carriers, pipelines); excludes companies primarily engaged in freight forwarding, or vehicle rental)

OPERATING REVENUE GROUP	1981				1982				1983			
	As-sets	Operating revenues	Net income	Stockholders' equity	As-sets	Operating revenues	Net income	Stockholders' equity	As-sets	Operating revenues	Net income	Stockholders' equity
50 largest, total.....	88.2	81.5	3.9	29.0	87.6	77.8	2.3	29.2	100.5	82.6	3.8	35.3
Top 10.....	39.5	44.1	1.3	13.9	43.4	43.4	.9	15.2	58.2	48.1	2.0	20.7
11-20.....	25.4	17.9	1.1	8.3	22.3	17.7	.6	7.5	20.1	16.2	.5	7.0
21-30.....	12.1	10.0	.7	3.4	11.7	8.8	.7	3.6	12.2	9.3	.8	3.8
31-40.....	5.8	5.7	.3	1.3	5.6	4.7	.4	1.7	6.3	5.4	.3	2.2
41-50.....	5.4	3.8	.4	2.0	4.7	3.4	-.2	1.3	3.7	3.7	.2	1.7
Percent, total:												
Top 10.....	44.8	54.0	33.9	48.1	49.5	55.7	37.7	52.1	57.9	58.2	51.5	58.5
11-20.....	28.8	22.0	27.9	28.6	25.4	22.7	26.7	25.5	20.0	19.6	13.6	19.8
21-30.....	13.8	12.3	18.5	11.8	13.3	11.3	28.8	12.2	12.2	11.3	21.4	10.8
31-40.....	6.6	7.0	8.9	4.4	6.4	6.0	16.4	5.7	6.2	6.5	9.2	6.1
41-50.....	6.1	4.7	10.8	7.0	5.4	4.3	-9.6	4.5	3.7	4.5	4.3	4.8

Source: Time, Inc., New York, NY; adapted from *The Fortune Directory*, July issues. (Copyright.)

No. 1029. VOLUME OF DOMESTIC INTERCITY FREIGHT AND PASSENGER TRAFFIC, BY TYPE OF TRANSPORT: 1960 TO 1984

[A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger-mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1970, series Q1-22*]

TYPE OF TRANSPORT	1960	1965	1970	1973	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984 ¹
BILLIONS OF TON-MILES														
FREIGHT TRAFFIC														
Total.....	1,314	1,638	1,936	2,232	2,066	2,202	2,307	2,487	2,573	2,487	2,430	2,252	2,311	2,554
Railroads ²	579	709	771	858	759	800	834	868	927	932	924	810	841	938
Motor vehicles.....	285	359	412	505	454	510	555	599	608	555	527	520	548	602
Inland waterways ³	220	262	319	358	342	373	368	409	425	407	410	351	360	404
Oil pipelines.....	229	306	431	507	507	515	546	586	608	588	564	566	556	605
Domestic airways ^{4, 5}.....	.9	1.9	3.3	4.0	3.7	3.9	4.2	4.8	4.6	4.8	5.0	4.9	5.9	6.6
PERCENT DISTRIBUTION														
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Railroads ²	44.06	43.28	39.82	38.44	36.74	36.33	36.15	35.18	36.03	37.47	38.02	35.97	36.39	36.65
Motor vehicles.....	21.69	21.92	21.28	22.63	21.97	23.16	24.06	24.28	23.64	22.32	21.69	23.09	23.71	23.57
Inland waterways ³	16.74	16.00	16.48	16.04	16.55	16.94	15.95	16.58	16.52	16.37	16.87	15.59	15.58	15.82
Oil pipelines.....	17.43	18.68	22.26	22.72	24.54	23.39	23.67	23.75	23.64	23.64	23.21	25.13	24.06	23.69
Domestic airways ^{4, 5}.....	.07	.12	.17	.18	.19	.18	.18	.19	.18	.19	.20	.22	.26	.26
BILLIONS OF PASSENGER-MILES														
PASSENGER TRAFFIC														
Total.....	781	918	1,181	1,341	1,354	1,460	1,529	1,602	1,590	1,558	1,574	1,609	1,675	1,765
Private automobiles.....	706	818	1,026	1,163	1,171	1,260	1,316	1,362	1,322	1,300	1,319	1,344	1,393	1,465
Domestic airways ^{4, 6}	34	58	119	143	148	164	177	203	228	219	216	227	244	261
Bus ⁷	19	24	25	26	25	25	26	26	28	27	27	27	27	27
Railroads ²	22	18	11	9	10	11	10	11	12	11	12	11	11	12
PERCENT DISTRIBUTION														
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Private automobiles.....	90.40	89.11	86.88	86.73	86.48	86.30	86.07	85.02	83.14	83.44	83.80	83.53	83.16	83.00
Domestic airways ^{4, 6}	4.35	6.32	10.08	10.66	10.93	11.23	11.58	12.67	14.34	14.06	13.72	14.11	14.57	14.79
Bus ⁷	2.43	2.61	2.12	1.94	1.85	1.71	1.70	1.62	1.76	1.73	1.72	1.68	1.61	1.53
Railroads ²	2.82	1.96	.93	.87	.74	.75	.65	.69	.75	.71	.76	.68	.66	.68

¹ Estimated by source, based on available data.

² Includes electric railways and rail commuter service.

³ Includes Great Lakes.

⁴ Revenue service only for certificated route and charter carriers, with small Section 418 all-cargo carriers included from 1978.

⁵ Includes express, mail, and excess baggage.

⁶ Includes general aviation (mostly private business) flying.

⁷ Excludes school and urban transit buses.

Source: Transportation Policy Associates, Washington, DC, *Transportation in America*, March 1985, with periodic supplements. (Copyright.)

NO. 1030. TRANSPORTATION ACCIDENTS, AND RESULTING DEATHS AND INJURIES, BY TYPE OF TRANSPORT: 1970 TO 1984

[For motor vehicle data, see also tables 1046 and 1047; for railroad data, see also tables 1071 and 1077; for air carrier and general aviation data, see also tables 1081 and 1084]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT								Hazardous materials ^a
		Motor vehicle ¹ (1,000)	Railroad ²	Air carrier ³	General aviation ⁴	Recreational boating ⁵	Gas pipelines ⁶	Liquid pipelines ⁷	Waterborne ⁸	
Accidents:										
1970	16,013	16,000	8,095	(NA)	(NA)	3,803	1,019	351	(NA)	(NA)
1975	16,523	16,500	8,041	31	4,001	6,308	1,373	254	3,310	10,951
1979	18,126	18,100	9,740	24	3,825	5,368	1,920	248	4,932	17,683
1980	17,924	17,900	8,451	15	3,597	5,513	1,986	219	4,624	15,737
1981	18,020	18,000	5,781	25	3,502	5,208	1,895	239	3,503	10,070
1982	18,118	18,100	4,589	15	3,230	5,371	1,711	200	3,174	6,636
1983	18,319	18,300	3,906	21	3,092	5,569	1,575	161	4,704	8,846
1984	(NA)	(NA)	3,891	12	3,009	5,700	967	188	2,283	5,512
Deaths:										
1970	54.8	52.6	785	(NA)	(NA)	1,418	22	4	(NA)	(NA)
1975	48.2	44.5	575	122	1,258	1,466	14	7	243	27
1979	54.9	51.1	546	351	1,237	1,400	45	4	174	17
1980	54.5	51.1	584	-	1,252	1,360	11	3	206	19
1981	52.5	49.3	556	4	1,282	1,206	17	5	154	25
1982	47.2	43.9	512	233	1,182	1,178	31	-	223	12
1983	45.7	42.6	498	15	1,046	1,241	12	-	289	8
1984	46.7	43.9	598	4	1,002	1,063	35	-	79	7
Injuries:										
1970	2,024	2,000	21,327	(NA)	(NA)	780	347	21	(NA)	(NA)
1975	1,958	1,800	54,306	71	728	2,136	819	17	97	646
1979	2,077	2,000	74,126	49	838	2,488	57	8	115	936
1980	2,066	2,000	62,246	17	675	2,650	310	15	176	828
1981	1,958	1,900	53,003	21	597	2,474	74	22	141	843
1982	1,741	1,700	37,638	31	620	2,682	220	8	271	130
1983	1,636	1,600	32,196	49	566	2,913	242	9	209	193
1984	1,639	1,600	35,647	70	599	2,709	229	19	63	242

- Represents zero. NA Not available. ¹ Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 1046. Other data are from National Safety Council. ² Train accidents cover only those accidents which result in damages to railroad property exceeding amounts specified by the U.S. Federal Railroad Administration. The reporting threshold was raised from \$750 to \$1,750 in 1975; to \$2,600 in 1979; to \$3,700 in 1981; and to \$4,500 in 1983. Grade crossing accidents are also included when classified as a train accident. Deaths exclude fatalities in railroad-highway grade crossing accidents. ³ Includes only scheduled air carriers operating under 14 CFR 121 (airlines). Injuries include only serious injuries. 1983-1984 injuries include commuter carrier and air taxis. ⁴ 1975-1984 data exclude commuter and on-demand air taxis operating under 14 CFR 135. ⁵ Accidents are required to be reported to the U.S. Coast Guard whenever they result in a death; a person being injured or receiving medical treatment beyond first aid; damages exceed \$200; or a person's disappearance. ⁶ Pipeline accidents/incidents are credited to the year in which they occurred beginning with 1983 data; prior data are credited to the year the accident/incident reports were filed. Fatalities and injuries as reported in annual report. ⁷ Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. ⁸ Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$1,500; material damage affecting the seaworthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. ⁹ Accidents, deaths, and injuries involving hazardous materials cover all types of transport.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, MA, *Transportation Safety Information Report*, annual.

NO. 1031. HIGHWAY MILEAGE—URBAN AND RURAL, BY TYPE OF CONTROL, AND FEDERAL-AID HIGHWAY SYSTEM: 1950 TO 1983

[In thousands, except percent. As of Dec. 31. Beginning 1980, data for urban and rural mileage are not comparable to prior years because of classification changes; see text, p. 587. See also *Historical Statistics, Colonial Times to 1970*, series Q 50, 51, and 55]

TYPE AND CONTROL	1950	1955	1960	1965	1970	1975	1979	1980	1981	1982	1983
Total mileage ¹	3,313	3,418	3,546	3,690	3,730	3,838	3,918	3,955	3,853	3,866	3,880
Urban mileage ²	323	373	430	506	561	639	694	624	632	641	662
Under State control	36	42	50	65	74	84	86	79	90	103	100
Under local control	287	331	379	442	487	555	607	543	540	538	562
Rural mileage	2,990	3,045	3,116	3,183	3,169	3,199	3,224	3,331	3,221	3,226	3,217
Percent surfaced ³	56.2	63.8	69.5	72.3	76.1	77.5	77.5	77.5	86.1	85.7	86.0
Under State control	580	620	659	687	707	711	697	702	726	* 825	817
Under local control	2,336	2,333	2,345	2,346	2,275	2,261	2,270	2,270	2,256	* 2,140	2,138
Under Federal control	73	83	112	150	188	227	244	262	256	261	262
Federal-aid highway system: ⁴											
Primary	234	235	265	269	272	266	303	300	298	298	300
Interstate	(X)	(X)	10	21	32	37	40	41	42	42	43
Urban	(X)	(X)	(X)	(X)	(X)	65	124	124	129	134	137
Secondary	410	514	601	640	647	643	397	398	401	402	397

X Not applicable. ¹ Prior to 1980, includes public and nonpublic road mileage; beginning 1981, includes only public road mileage as defined 23 USC 402. ² Includes 98,000 miles of nonpublic road mileage previously contained in other rural categories. ³ Prior to 1980, represents municipal mileage; see text, p. 587. ⁴ Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. ⁵ Incomplete reporting from Alaska, Missouri, and Pennsylvania for control open to traffic rather than total highway miles carrying interstate traffic.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1032. HIGHWAY MILEAGE—URBAN, RURAL, AND FEDERAL-AID HIGHWAY SYSTEM: 1983

[As of Dec. 31. For definition of urban, rural, and Federal-aid highway system roads; see text, p. 587]

STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM ¹				STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM ¹			
			Primary		Urban	Sec- ondary				Primary		Urban	Sec- ondary
			Total	Inter- state						Total	Inter- state		
U.S.....	662.3	3,217.3	300,040	43,028	137,193	397,329	MO.....	14.5	104.1	8,026	1,132	2,312	18,071
AL.....	13.9	73.6	7,478	830	2,267	11,250	MT.....	2.3	69.2	6,614	1,135	328	4,705
AK.....	1.3	7.4	2,136	1,092	199	1,826	NE.....	4.5	87.4	7,700	482	1,041	11,412
AZ.....	8.9	67.4	4,632	1,144	1,688	3,167	NV.....	3.0	40.8	2,386	538	504	2,331
AR.....	7.5	69.5	5,699	541	1,059	6,943	NH.....	2.4	12.1	1,345	207	711	1,230
CA.....	63.7	110.3	13,459	2,381	15,762	11,104	NJ.....	22.4	11.5	1,840	381	5,351	1,718
CO.....	10.9	64.5	5,906	946	3,101	3,614	NM.....	4.4	49.7	4,565	1,000	686	3,973
CT.....	10.7	8.9	1,602	337	2,930	895	NY.....	36.4	73.4	9,760	1,488	8,476	6,366
DE.....	1.5	3.8	469	41	305	805	NC.....	17.3	75.1	5,121	764	2,284	10,407
DC.....	1.1	-	170	12	247	-	ND.....	1.5	84.3	6,158	571	376	10,430
FL.....	30.5	62.6	9,578	1,245	5,482	4,668	OH.....	29.4	82.8	7,900	1,546	7,390	11,782
GA.....	18.4	86.5	11,259	1,182	3,337	14,014	OK.....	11.9	98.1	6,223	926	2,466	9,481
HI.....	1.4	2.9	518	36	176	430	OR.....	8.4	125.1	5,702	718	1,969	7,746
ID.....	2.2	66.2	3,356	607	570	4,058	PA.....	28.1	87.5	11,455	1,524	6,763	8,196
IL.....	30.8	103.8	11,440	1,711	6,578	12,841	RI.....	3.6	2.7	469	70	824	166
IN.....	17.7	74.0	8,104	1,113	4,816	9,211	SC.....	9.0	54.3	6,346	756	1,166	8,505
IA.....	8.4	103.9	9,600	737	2,295	13,329	SD.....	1.6	71.8	6,489	677	356	11,223
KS.....	8.3	123.9	8,908	808	1,538	22,547	TN.....	11.9	71.9	7,026	1,031	2,371	5,282
KY.....	7.4	61.7	4,474	738	1,853	7,222	TX.....	62.9	212.9	19,803	3,116	6,965	32,722
LA.....	12.2	45.8	3,846	686	1,853	7,412	UT.....	5.1	41.0	3,377	806	840	2,571
ME.....	2.4	19.7	2,306	313	650	2,743	VT.....	.9	13.1	1,434	320	264	1,953
MD.....	10.1	17.3	2,508	377	1,958	2,022	VA.....	12.6	52.5	6,424	1,025	2,907	10,328
MA.....	20.6	13.2	2,777	562	5,810	2,007	WA.....	14.8	71.0	5,788	715	3,972	7,196
MI.....	25.1	92.3	7,054	1,129	4,828	19,019	WV.....	2.9	31.7	2,923	479	781	6,330
MN.....	12.9	118.5	10,158	873	1,942	16,495	WI.....	13.8	94.4	9,497	577	2,789	11,773
MS.....	6.9	64.1	6,332	686	1,679	11,731	WY.....	1.5	36.6	3,900	917	440	2,279

— Represents zero. ¹ Highway mileage open to traffic.Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1033. HIGHWAY MILEAGE—PAVEMENT CONDITION FOR URBAN AND RURAL AREAS, BY TYPE OF ROAD SYSTEM: 1978 to 1983

[Highway pavement condition is classified by the Present Serviceability Rating (PSR) system, which ranges from a high of 5.0 down to 0.1. The reported ranges are defined as: PSR 5.0-3.5, pavements give a first class ride and exhibit few, if any, visible signs of surface wear. Of the quality of new or nearly new pavements. PSR 3.4-2.0, pavements have a riding quality somewhat inferior to that of new pavements or may even be barely tolerable at high speeds. Surfaces may show signs of cracking, substantial patching, and rutting. PSR 1.9-0.1, pavements show extensive wear to the point of needing resurfacing or may even need complete reconstruction]

PAVEMENT CONDITION	INTERSTATE ROAD SYSTEMS				ARTERIAL ROAD SYSTEMS				COLLECTOR ROAD SYSTEMS			
	1978	1980	1982	1983	1978	1980	1982	1983	1978	1980	1982	1983
URBAN AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) ¹	8	6	9	10	5	7	7	6	7	9	8	9
PSR 2.0-3.4 (2.5-3.4) ¹	34	26	33	37	48	42	49	52	59	50	55	57
PSR 3.5-5.0	58	68	58	53	47	51	44	42	34	41	36	34
RURAL AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) ¹	9	5	8	9	6	6	9	7	9	16	12	13
PSR 2.0-3.4 (2.5-3.4) ¹	28	26	33	33	52	46	50	51	66	55	54	55
PSR 3.5-5.0	63	69	59	58	42	48	42	42	25	29	34	32

¹ PSR range shown in parentheses applies to Interstate roads only.Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1034. RECEIPTS AND DISBURSEMENTS FOR HIGHWAYS, BY TYPE: 1970 TO 1985

[In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 496. State data include District of Columbia]

TYPE	1970	1975	1980	1982	1983	1984, prel.	1985, proj.		
							Total ¹	Federal	State
Total receipts	21,747	29,160	39,715	44,055	47,772	53,010	56,296	14,831	27,815
Current income.....	19,861	26,921	37,604	41,140	45,275	50,240	53,366	14,831	26,515
Imposts on highway users ²	15,311	18,578	22,559	24,312	27,976	32,689	34,794	11,675	22,415
Other taxes and fees.....	3,732	6,805	11,808	12,812	13,544	13,681	14,612	1,896	2,785
Investment income and other receipts.....	818	1,738	3,237	4,016	3,755	3,870	3,960	1,260	1,315
Bond issue proceeds ³	1,866	2,239	2,111	2,915	2,497	2,770	2,930	-	1,300
Intergovernmental payments ⁴	(x)	(x)	(x)	(x)	(x)	(x)	(x)	-14,423	6,981
Funds drawn from (+) or placed in (-) reserves.....	-912	-461	+2,080	-728	-1,628	-952	+1,412	+819	+433
Total funds available.....	20,835	28,699	41,795	43,327	46,144	52,058	57,708	1,027	35,229
Total disbursements	20,835	28,699	41,795	43,327	46,144	52,058	57,708	1,027	35,229
Current disbursements.....	19,583	27,207	40,084	41,281	43,960	49,845	55,404	1,027	34,005
Capital outlay.....	11,575	14,398	20,337	19,052	20,540	24,878	28,973	576	22,049
Maintenance and traffic services.....	4,720	7,286	11,445	13,319	14,015	14,933	15,868	141	5,997
Administration and research.....	1,275	1,981	3,022	3,152	3,276	3,484	3,669	310	2,059
Law enforcement and safety.....	1,303	2,413	3,824	4,068	4,257	4,585	4,877	-	2,640
Interest on debt.....	710	1,129	1,456	1,690	1,872	1,965	2,027	-	1,260
Debt retirement ⁵	1,252	1,492	1,711	2,046	2,184	2,213	2,304	-	1,224

- Represents zero. X Not applicable. ¹Includes other levels of government not shown separately. ²Excludes amounts later allocated for nonhighway purposes. ³Par value. Excludes issue and redemption of short-term notes or refunding bonds. Premiums and discounts on sale of bonds and accrued interest are included with investment income and other receipts. Redemption premiums and discounts are included with interest on debt. ⁴Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

NO. 1035. DISBURSEMENTS OF STATE HIGHWAY FUNDS—TOTAL, 1980 TO 1983, AND BY PURPOSE, 1983, BY STATE

[In millions of dollars. Comprises disbursements from current revenues or loans for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous. Includes transactions by State toll authorities. Excludes amounts allocated for collection and nonhighway purposes, and bonds redeemed by refunding. See also *Historical Statistics, Colonial Times to 1970*, series Q 90-94]

STATE	1980, total	1982, total	1983				STATE	1980, total	1982, total	1983			
			Total ¹	State highways						Total ¹	State highways		
				Capit- al out- lays ²	Main- te- nance ³	Law en- force- ment and safety					Capit- al out- lays ²	Main- te- nance ³	Law en- force- ment and safety
U.S.....	30,049	29,803	32,343	13,750	5,513	2,311	MO.....	555	507	568	226	147	48
AL.....	517	605	629	300	67	35	MT.....	224	174	222	112	32	12
AK.....	274	302	324	152	100	9	NE.....	274	271	327	147	41	17
AZ.....	365	347	463	171	40	26	NV.....	169	164	208	108	22	12
AR.....	425	351	345	145	65	22	NH.....	152	197	172	57	53	24
CA.....	1,930	2,013	2,161	620	327	334	NJ.....	662	782	804	231	172	118
CO.....	411	411	441	188	90	24	NM.....	197	301	347	188	59	15
CT.....	393	396	457	190	56	35	NY.....	1,650	1,653	1,876	881	309	105
DE.....	152	168	188	86	24	13	NC.....	807	693	745	276	263	76
DC.....	57	99	94	37	26	5	ND.....	143	136	187	91	24	6
FL.....	1,261	1,133	1,205	564	151	65	OH.....	1,032	1,199	1,291	394	161	81
GA.....	762	728	945	604	114	24	OK.....	461	539	603	236	65	59
HI.....	134	133	160	93	14	1	OR.....	482	417	437	191	47	35
ID.....	153	160	184	70	38	10	PA.....	1,557	1,817	1,744	637	467	150
IL.....	1,652	1,482	1,595	717	193	92	RI.....	72	88	92	47	19	6
IN.....	686	672	647	237	107	41	SC.....	309	300	340	162	99	28
IA.....	504	499	551	172	71	24	SD.....	151	144	165	78	29	10
KS.....	440	366	368	128	61	24	TN.....	609	555	654	337	80	30
KY.....	913	692	770	364	121	33	TX.....	1,882	1,677	1,762	1,062	398	94
LA.....	682	812	916	596	85	52	UT.....	241	200	247	152	37	5
ME.....	164	186	181	67	61	11	VT.....	87	125	115	30	27	12
MD.....	663	850	837	268	121	54	VA.....	894	783	909	428	261	62
MA.....	704	527	617	160	129	52	WA.....	787	799	837	371	132	56
MI.....	997	1,016	989	239	132	112	WV.....	672	493	467	231	98	18
MN.....	611	671	735	294	115	40	WI.....	468	509	639	264	96	30
MS.....	468	461	456	198	42	32	WY.....	192	201	236	153	46	9

¹ Includes funds for administration and miscellaneous, bond interest, bond redemption, and county and local roads and streets.

² Outlays for roads and bridges. ³ Includes traffic services.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1036. FEDERAL GRANTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY TRUST FUND AND URBAN MASS TRANSPORTATION ADMINISTRATION (UMTA), BY STATE: 1984

[Year ending Sept. 30]

STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA	
	Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)		Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)		Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)
U.S.....	9,460	40.16	3,442	15.25	KY.....	182	48.75	8	2.18	ND.....	95	138.01	4	6.13
AL.....	199	49.84	8	1.99	LA.....	238	53.29	36	8.12	OH.....	348	32.36	101	9.38
AK.....	143	286.42	5	10.51	ME.....	52	45.13	4	3.72	OK.....	121	35.72	7	2.24
AZ.....	157	51.52	12	4.16	MD.....	216	49.72	86	19.90	OR.....	127	47.40	77	28.87
AR.....	106	54.29	3	1.11	MA.....	243	26.81	278	47.94	PA.....	394	33.12	337	28.30
CA.....	688	26.85	495	19.32	MI.....	243	26.81	99	10.88	RI.....	48	49.94	7	7.67
CO.....	177	55.63	58	18.10	MN.....	211	50.78	30	7.17	SC.....	117	35.59	5	1.55
CT.....	124	39.29	13	4.22	MS.....	125	48.25	1	.54	SD.....	78	110.74	1	.94
DE.....	43	69.70	4	6.86	MO.....	231	46.03	34	6.69	TN.....	248	52.57	16	3.36
DC.....	20	32.10	117	187.38	MT.....	116	140.57	2	2.54	TX.....	512	32.04	115	7.19
FL.....	304	27.72	208	18.91	NE.....	103	63.87	1	.89	UT.....	140	84.67	13	7.58
GA.....	336	57.52	135	23.05	NV.....	69	76.04	5	5.75	VT.....	47	86.84	1	2.46
HI.....	65	62.61	23	21.34	NH.....	46	46.95	3	2.59	VA.....	193	34.17	21	3.76
ID.....	69	68.70	2	2.40	NJ.....	158	21.09	143	19.07	WA.....	286	65.79	48	11.05
IL.....	411	35.70	192	16.70	NM.....	110	77.08	2	1.64	WV.....	173	88.68	7	2.88
IN.....	215	39.15	42	7.71	NY.....	474	26.74	577	32.55	WI.....	181	37.94	28	5.79
IA.....	194	66.80	13	4.34	NC.....	194	31.54	12	1.96	WY.....	79	154.93	(2)	.19
KS.....	142	58.36	3	1.43										

Z Less than \$500,000.

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1984*, March 1985.

NO. 1037. STATE GASOLINE TAX RATES, 1983 AND 1984, AND MOTOR FUEL TAX RECEIPTS, 1983

[See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	RATE ¹ (cents per gal.)		Re- ceipts, ² 1983 (mil. dol.)	STATE	RATE ¹ (cents per gal.)		Re- ceipts, ² 1983 (mil. dol.)	STATE	RATE ¹ (cents per gal.)		Re- ceipts, ² 1983 (mil. dol.)
	1983	1984			1983	1984			1983	1984	
Total.....	18.75	19.58	(x)	IA.....	13	13	186	NC.....	12	12	379
Federal.....	9.0	9.0	(x)	KS.....	10	11	123	ND.....	13	13	43
State.....	9.75	10.58	11,572	KY.....	10	10	196	OH.....	12	12	598
AK.....	11	13	239	LA.....	16	16	196	OK.....	6.58	9	130
AL.....	8	8	24	ME.....	14	14	73	OR.....	8	9	98
AZ.....	12	13	168	MD.....	13.5	13.5	259	PA.....	12	12	743
AR.....	9.5	9.5	129	MA.....	11	11	262	RI.....	13	13	47
CA.....	9	9	1,140	MI.....	13	15	494	SC.....	13	13	230
CO.....	12	12	167	MN.....	16	17	305	SD.....	13	13	52
CT.....	14	15	190	MS.....	9	9	123	TN.....	9	10	253
DE.....	11	11	36	MT.....	7	7	194	TX.....	5	10	506
DC.....	14.8	15.5	24	NE.....	15	15	61	UT.....	11	14	82
FL.....	9.7	9.7	490	NV.....	15.5	14.7	116	VT.....	13	13	37
GA.....	7.5	7.5	255	NH.....	12	12	67	VA.....	11	11	399
HI.....	8.5	8.5	28	NJ.....	14	14	58	WA.....	18	18	290
ID.....	14.5	14.5	71	NY.....	8	8	298	WV.....	10.5	10.5	100
IL.....	11	12	436	NM.....	11	11	81	WI.....	15	16	307
IN.....	11.1	11.1	325	NY.....	8	8	422	WY.....	8	8	35

X Not applicable. ¹ In effect Dec. 31. ² Represents net receipts. ³ Represents weighted average based on net gallons taxed. ⁴ Includes 2 cents per gallon inspection fee. ⁵ Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more. ⁶ .08 cents per gallon is for inspection fee.

NO. 1038. PUBLIC HIGHWAY DEBT—STATE AND LOCAL GOVERNMENTS: 1970 TO 1985

[In millions of dollars. Long-term obligations. State data are for calendar years; local data for varying fiscal years. Excludes duplicated and interunit obligations. Municipal debt includes other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1970*, series Q 136-147]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984 ¹	1985 ²
Total debt issued ³	1,886	2,239	1,883	1,904	2,094	2,574	2,615	2,497	2,770	2,930
State.....	1,305	1,412	942	941	1,128	965	1,555	1,072	1,250	1,300
County and township.....	174	222	238	279	270	305	415	410	420	430
Municipal.....	407	605	703	684	690	1,304	945	1,015	1,100	1,200
Total debt redeemed ⁴	1,252	1,492	1,593	1,751	1,706	2,464	2,046	2,184	2,213	2,304
State.....	782	908	934	950	1,022	1,579	1,146	1,191	1,203	1,224
County and township.....	162	166	170	177	209	201	225	250	260	280
Municipal.....	318	418	469	614	475	684	675	743	750	800
Total debt outstanding	19,107	23,801	25,327	25,463	25,851	25,961	26,830	27,143	27,700	28,326
State.....	13,903	17,422	18,175	18,176	18,282	17,688	18,077	17,958	18,005	18,081
County and township.....	1,685	1,822	2,075	2,090	2,157	2,261	2,451	2,611	2,771	2,921
Municipal.....	3,519	4,557	5,077	5,197	5,412	6,032	6,302	6,574	6,924	7,324

¹ Preliminary. ² Projection. ³ Excludes refunding issues. ⁴ Excludes redemptions by refunding.Source of tables 1037 and 1038: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1039. MOTOR VEHICLES—SUMMARY: 1970 to 1984

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984
PASSENGER CARS										
Passenger car production.....	1,000.....	6,550	6,717	9,177	8,434	6,376	6,253	5,073	6,781	7,773
Passenger car factory sales.....	1,000.....	6,547	6,713	9,165	8,419	6,400	6,255	5,049	6,739	7,621
Passenger car (new), retail sales ¹	1,000.....	8,405	8,640	11,312	10,671	8,979	8,538	7,982	9,182	10,391
Domestic ²	1,000.....	7,116	7,050	9,308	8,341	6,581	6,209	5,759	6,795	7,952
Subcompact ³	1,000.....	1,338	700	1,191	1,671	1,804	1,630	1,489	1,776	2,322
Compact ³	1,000.....		2,336	2,391	2,130	1,859	1,568	1,257	1,110	1,336
Standard ³	1,000.....		1,956	2,647	2,147	1,358	1,250	1,377	1,825	1,817
Intermediate ³	1,000.....	5,778	2,058	3,079	2,393	1,957	1,757	1,641	2,071	2,484
Imports ⁴	1,000.....	1,285	1,587	2,000	2,329	2,398	2,327	2,223	2,387	2,438
TRUCKS										
Truck and bus production.....	1,000.....	1,784	2,270	3,723	3,046	1,634	1,690	1,912	2,444	3,151
Truck and bus factory sales.....	1,000.....	1,692	2,272	3,706	3,037	1,667	1,701	1,906	2,414	3,075
Truck and bus retail sales ⁵	1,000.....	1,746	2,351	3,914	3,236	2,232	1,972	2,246	2,709	3,538
Light duty (up to 14,000 GVW) ⁶	1,000.....	(NA)	2,076	3,547	2,861	1,964	1,747	2,064	2,521	3,261
Med. duty (14,001-26,000 GVW) ⁶	1,000.....	(NA)	169	164	152	92	74	45	48	61
Heavy duty (over 26,000 GVW) ⁶	1,000.....	126	106	203	223	176	152	138	141	216
MOTORCYCLES										
Motorcycle registrations, new ⁷	1,000.....	751	747	797	861	838	794	689	811	772
Motorcycle (new) retail sales ⁸	1,000.....	1,010	940	975	1,085	1,085	1,045	970	1,175	1,260
All-terrain vehicles.....	1,000.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	250	425	550
All-terrain vehicle imports.....	1,000.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	275	430	635
Motorcycle imports, total ⁹	1,000.....	1,091	948	935	887	1,120	1,057	917	540	441
Value ¹⁰	Mill. dol.	308	713	797	870	1,142	1,314	1,110	697	523
FOREIGN TRADE										
Passenger cars (new), exported ¹¹	1,000.....	285	640	706	793	617	548	379	554	616
Passenger cars (new), imported ¹¹	1,000.....	2,013	2,075	3,025	3,006	3,248	2,999	3,067	3,667	4,880
Canada.....	1,000.....	693	734	833	677	595	564	703	837	1,073
Germany, Federal Republic of.....	1,000.....	675	370	416	496	471	376	338	330	399
Japan.....	1,000.....	381	696	1,563	1,817	1,992	1,912	1,823	2,112	2,892
Trucks (new) exports.....	1,000.....	91	219	243	257	186	166	124	132	159
Trucks (new) imports ¹²	1,000.....	166	295	743	677	747	733	697	785	1,020
Japan.....	1,000.....	27	142	368	397	460	430	445	470	517
Import value, new passenger cars ¹³	Mill. dol.	3,710	7,493	14,072	14,862	16,935	17,339	20,397	24,146	30,423
Trucks and buses, new ¹³	Mill. dol.	381	620	2,146	1,841	1,985	4,217	4,453	4,848	6,541
Export value ¹³	Mill. dol.	3,871	10,658	14,548	16,590	16,015	18,121	16,039	17,078	20,776
Passenger cars (new) ¹³	Mill. dol.	822	2,852	3,623	4,642	3,932	8,282	2,867	4,208	4,876
Trucks and buses (new) ¹³	Mill. dol.	636	2,305	2,752	3,267	2,977	3,247	2,642	2,130	2,479
Parts and accessories ¹⁴	Mill. dol.	2,413	5,501	8,173	8,881	9,106	10,946	10,530	10,740	13,421
VEHICLES IN USE AND RETIRED										
Cars in use, total.....	Million.....	80.4	95.2	102.9	104.7	104.6	105.8	106.9	109.0	112.0
Under 3 years.....	Million.....	24.4	25.8	27.3	28.2	26.8	24.2	21.5	20.7	22.0
3-5 years.....	Million.....	24.9	27.0	27.3	25.2	25.5	28.8	29.9	28.8	26.8
6-8 years.....	Million.....	18.4	22.0	23.5	25.0	25.2	23.0	22.2	23.5	26.8
9-11 years.....	Million.....	7.7	13.9	14.6	14.9	14.6	16.0	17.9	18.9	17.4
12 years and over.....	Million.....	4.9	6.6	10.5	11.3	12.5	13.9	15.4	17.0	19.0
Average age.....	Years.....	5.6	6.0	6.3	6.4	6.6	6.9	7.2	7.4	7.5
Cars retired from use ¹⁵	1,000.....	7,461	5,669	7,907	9,312	8,405	7,542	6,921	6,243	6,675
Trucks in use, total.....	Million.....	17.7	24.8	30.5	32.6	35.2	36.1	37.0	38.1	40.1
Under 3 years.....	Million.....	4.7	6.9	8.5	9.2	8.8	7.3	5.6	5.9	7.2
3-5 years.....	Million.....	4.3	5.8	7.4	7.5	8.1	9.7	10.7	9.5	8.0
6-8 years.....	Million.....	3.0	4.4	5.3	6.0	7.4	7.1	7.1	7.7	9.2
9-11 years.....	Million.....	1.9	3.2	3.8	4.0	4.4	4.9	5.7	6.5	6.2
12 years and over.....	Million.....	3.8	4.4	5.5	5.9	6.5	7.2	7.9	8.5	9.6
Average age.....	Years.....	7.3	6.9	6.9	6.9	7.1	7.5	7.8	8.1	8.2
Trucks retired from use ¹⁵	1,000.....	837	908	1,426	1,916	1,732	1,519	1,459	1,491	1,602
TIRES AND BATTERIES SHIPMENTS										
Tires, passenger car, total ¹⁶	Million.....	168.6	167.0	193.9	174.0	145.9	165.3	167.5	182.0	201.6
Radials.....	Million.....	2.9	61.5	89.5	90.9	83.5	108.6	115.9	133.4	156.6
Replacement.....	Million.....	129.6	122.5	135.2	121.9	106.9	125.3	130.5	134.0	144.6
Tires, truck and bus, total ¹⁶	Million.....	25.7	27.3	42.7	39.9	31.1	35.8	33.8	36.9	40.8
Radials.....	Million.....	(NA)	.8	3.1	4.1	3.8	9.2	10.4	13.4	16.0
Replacement.....	Million.....	16.7	19.8	30.0	28.9	24.4	28.5	28.1	30.3	31.7
Batteries, total ¹⁷	Million.....	46.9	52.9	73.2	69.3	61.6	65.5	64.6	69.0	74.7
Replacement automobile batteries.....	Million.....	37.9	39.3	56.4	53.7	50.1	53.6	54.2	56.1	59.3

NA Not available. ¹ Based on data from U.S. Dept. of Commerce.² Includes domestic models produced in Canada.³ Source: Board of Governors of the Federal Reserve System, unpublished data. Represents total auto sales data from *Ward's Automotive Reports*. Criteria by which each year's car models are grouped into the major size categories vary among those collecting data. Data shown here follow *Automotive News* classifications. Beginning 1978, cars produced in U.S. by foreign manufacturer are included in subcompact. ⁴ Excludes domestic models produced in Canada. ⁵ Excludes motorcoaches and imports from foreign manufacturers. Beginning 1975, includes imports sold by franchised dealers of U.S. manufacturers. ⁶ Gross vehicle weight (fully loaded vehicle). ⁷ Source: R. L. Polk & Company, Detroit, MI, *New Motorcycle Registrations by States*.Excludes Oklahoma; 1984, excludes New York. Reproduction prohibited without Polk permission. ⁸ Estimates by Motorcycle Industry Council Inc., Costa Mesa, CA. Includes all-terrain vehicles. Excludes mopeds/motorized bicycles. ⁹ Source: Motorcycle Industry Council, Inc., Costa Mesa, CA. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. ¹⁰ Dutiable value for customs purposes prior to 1980 thereafter, c.i.f. value. ¹¹ 1970-1977, covers assembled vehicles only. Beginning 1978, includes chassis. ¹² Includes other countries, not shown separately. ¹³ Covers assembled and unassembled vehicles. ¹⁴ Includes rubber tires and tubes and used vehicles. ¹⁵ For years ending June 30. Represents vehicles failing to re-register. ¹⁶ Includes original equipment. Also includes exports, not shown separately. Source: The Rubber Manufacturers Association, Inc., Washington, D.C., *RMA Monthly Tire Report*. ¹⁷ Source: Battery Council International, Chicago, IL.Source: Except as noted, Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual; and *World Motor Vehicle Data*, annual.

NO. 1040. MOTOR-VEHICLE REGISTRATIONS, 1960 TO 1984, AND DRIVERS LICENSES, 1983, BY STATE

[In thousands, except as indicated. Motor vehicle registrations cover publicly, privately, and commercially owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ; figures represent net numbers where possible, excluding re-registrations and nonresident registrations]

STATE	AUTOMOBILES, TRUCKS, AND BUSES ¹							1984, est.			Motorcycles ¹ (incl. official) 1984, est.		DRIVERS LICENSES, 1983	
	1960, total	1970, total	1975, total	1980, total	1982, total	1983, total	Total	Automobiles (incl. taxis)		Total	Per 1,000 popula- tion ²	Total ³	Per- cent male	
								Total	Per 1,000 popula- tion ²					
U.S.	73,858	108,418	132,949	155,796	159,599	163,861	168,607	130,053	551	5,618	24	154,221	52.40	
AL.	1,282	1,966	2,493	2,938	3,039	3,145	3,210	2,317	581	76	19	3,394	51.98	
AK	81	139	226	262	319	350	378	234	468	11	22	289	58.12	
AZ	624	1,093	1,459	1,917	2,216	2,289	2,357	1,682	551	89	29	2,179	54.06	
AR	708	1,043	1,283	1,574	1,481	1,445	1,428	927	395	23	10	1,650	51.63	
CA	7,799	11,901	13,881	16,873	17,130	17,767	18,870	14,730	575	715	28	16,649	52.92	
CO	924	1,442	1,925	2,342	2,502	2,649	2,779	2,020	639	117	37	2,229	52.15	
CT	1,107	1,733	1,949	2,147	2,258	2,305	2,340	2,185	693	80	25	2,250	51.71	
DE	192	312	351	397	415	427	453	361	589	11	18	432	51.42	
DC	206	257	255	268	231	233	234	215	345	6	10	370	54.96	
FL	2,367	4,120	5,395	7,614	8,335	8,808	9,548	7,682	700	247	23	8,347	51.92	
GA	1,512	2,584	3,211	3,818	3,916	4,208	4,299	3,202	549	107	18	3,725	51.45	
HI	231	405	462	570	586	616	633	573	551	9	9	575	55.26	
ID	375	488	647	834	873	877	889	530	529	51	51	648	52.26	
IL	3,776	5,238	6,344	7,477	7,242	7,513	7,707	6,002	521	231	20	6,985	52.24	
IN	2,046	2,818	3,315	3,826	3,864	3,852	3,844	2,850	518	136	25	3,551	51.21	
IA	1,325	1,790	2,099	2,329	2,346	2,479	2,531	1,780	612	242	83	1,929	49.65	
KS	1,163	1,548	1,805	2,007	2,061	2,048	2,072	1,423	584	102	42	1,681	50.61	
KY	1,198	1,763	2,245	2,593	2,615	2,621	2,632	1,616	488	58	16	2,193	53.52	
LA	1,177	1,742	2,188	2,779	2,800	2,877	2,909	2,037	457	63	14	2,725	52.84	
ME	374	510	648	724	743	766	790	583	504	50	43	770	51.40	
MD	1,155	1,872	2,423	2,803	2,893	3,011	3,192	2,675	615	71	16	2,799	51.78	
MA	1,803	2,575	3,107	3,749	3,808	3,840	3,868	3,401	587	116	20	2,678	51.85	
MI	3,306	4,569	5,545	6,488	6,250	6,295	6,323	5,038	555	229	25	6,345	52.20	
MN	1,592	2,207	2,525	3,091	3,193	3,282	3,363	2,448	588	171	41	2,374	51.92	
MS	723	1,117	1,377	1,577	1,593	1,560	1,565	1,192	459	29	11	1,803	53.57	
MO	1,720	2,408	2,866	3,271	3,412	3,433	3,460	2,553	510	91	18	3,323	51.60	
MT	373	495	611	680	758	829	894	526	638	32	39	489	54.82	
NE	734	974	1,165	1,254	1,215	1,235	1,255	828	516	47	29	1,095	51.55	
NV	175	355	464	655	710	730	755	542	595	22	24	676	53.09	
NH	256	390	485	704	774	803	830	712	729	55	56	697	51.89	
NJ	2,401	3,586	4,155	4,761	4,917	4,941	4,973	4,438	591	99	13	5,459	52.68	
NM	426	637	827	1,068	1,193	1,237	1,281	819	575	55	39	766	52.00	
NY	5,067	6,718	7,591	8,002	8,235	8,417	8,672	7,585	428	210	12	9,605	53.24	
NC	1,720	2,826	3,690	4,532	4,583	4,603	4,690	3,543	575	116	19	3,966	51.44	
ND	345	428	551	627	653	666	676	396	577	33	48	432	52.06	
OH	4,087	5,974	7,179	7,771	7,636	7,768	7,869	6,520	606	289	27	7,397	51.90	
OK	1,184	1,713	2,113	2,583	2,780	2,769	2,775	1,745	529	129	38	2,174	51.47	
OR	919	1,369	1,628	2,081	2,075	2,121	2,153	1,486	556	85	32	1,901	52.88	
PA	4,287	5,818	7,659	8,628	8,725	8,844	8,978	5,968	493	229	19	7,443	53.33	
RI	341	488	563	623	586	598	605	524	545	27	28	603	51.23	
SC	879	1,360	1,772	1,995	1,975	2,058	2,148	1,646	499	40	12	2,008	49.39	
SD	354	426	521	601	615	629	641	399	565	40	57	482	51.82	
TN	1,307	2,050	2,727	3,271	3,531	3,537	3,649	2,999	636	79	17	2,933	51.63	
TX	4,457	6,693	8,998	10,475	11,364	11,695	12,041	8,328	521	324	20	11,408	52.78	
UT	417	664	845	992	1,038	1,074	1,119	769	465	68	41	926	49.63	
VT	152	229	287	347	351	367	386	298	562	23	43	361	52.63	
VA	1,426	2,263	3,251	3,626	3,705	3,894	3,985	3,405	604	81	14	3,704	54.46	
WA	1,377	2,102	2,540	3,225	3,237	3,338	3,401	2,407	553	134	31	2,687	52.45	
WV	601	801	966	1,320	1,142	1,295	1,328	925	474	31	15	1,417	56.14	
WI	1,600	2,182	2,591	2,941	3,162	3,214	3,314	2,597	545	215	45	3,086	51.91	
WY	207	247	337	467	508	502	512	292	571	24	47	394	54.77	

¹ Excludes vehicles owned by military services.

² Based on resident population as of July 1.

³ Estimated from data reported by States for current and previous years; allowance has been made for deaths, emigration, or revocation by some States.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and *Drivers Licenses*, annual.

NO. 1041. MOTOR VEHICLES—REGISTRATIONS, FACTORY SALES, AND RETAIL SALES: 1950 TO 1984

[Minus sign (–) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970, series Q 148–155*]

YEAR	REGISTRATIONS ¹ (mil.)			Motor- cycle registrations ¹ (1,000)	FACTORY SALES (1,000)			PASSENGER CARS RETAIL SALES (1,000)			AVERAGE ANNUAL PERCENT CHANGE ⁴	
	Total cars, trucks, buses	Pas- senger cars ²	Trucks and buses		Total cars, trucks, buses	Pas- senger cars	Trucks and buses ³	Total	Do- mestic	Im- ports	Registra- tions ⁵	Retail sales
1950.....	49.2	40.4	8.8	454	8,003	6,666	1,337	(NA)	(NA)	(NA)	^a 7.4	(NA)
1955.....	52.7	52.1	10.6	412	9,169	7,920	1,249	7,466	7,408	58	5.0	(NA)
1960.....	73.9	61.7	12.2	574	7,869	6,675	1,194	6,641	6,142	499	3.3	-2.3
1965.....	90.4	75.3	15.1	1,382	11,057	9,306	1,752	9,332	8,763	569	4.1	7.0
1967.....	96.9	80.4	16.5	1,953	8,976	7,437	1,539	8,337	7,568	769	3.5	-5.5
1968.....	100.9	83.6	17.3	2,089	10,718	8,822	1,896	9,656	8,621	1,031	4.1	15.8
1969.....	105.1	86.9	18.2	2,316	10,147	8,224	1,923	9,583	8,464	1,118	4.2	-8
1970.....	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,405	7,119	1,285	3.2	-12.3
1971.....	113.0	92.7	20.3	3,344	10,638	8,585	2,053	10,250	8,681	1,568	4.2	22.0
1972.....	116.8	97.1	21.7	3,760	11,271	8,824	2,447	10,950	9,327	1,623	5.1	8.8
1973.....	125.7	102.0	23.7	4,371	12,637	9,658	2,980	11,439	9,676	1,763	5.8	4.5
1974.....	129.9	104.8	25.1	4,966	10,559	7,331	2,727	8,867	7,454	1,413	3.4	-22.5
1975.....	132.9	106.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2.3	-2.6
1976.....	138.5	110.2	28.4	4,933	11,480	8,500	2,979	10,110	8,611	1,498	4.2	17.0
1977.....	142.1	112.3	29.8	4,881	12,642	9,201	3,441	11,185	9,109	2,076	2.6	10.6
1978.....	146.4	116.6	31.8	4,868	12,871	9,165	3,706	11,312	9,312	2,000	4.4	1.1
1979.....	151.9	118.5	33.4	5,422	11,456	8,419	3,037	10,671	8,341	2,329	2.4	-5.7
1980.....	155.8	121.6	34.2	5,694	8,067	6,400	1,667	8,979	6,581	2,398	2.6	-15.9
1981.....	158.3	123.1	35.1	5,831	7,956	6,255	1,701	8,536	6,209	2,327	1.6	-4.9
1982.....	159.6	123.7	35.9	5,743	6,955	5,049	1,906	7,982	5,759	2,223	8	-6.5
1983.....	163.9	126.6	37.3	5,585	9,153	6,739	2,414	9,182	6,785	2,397	2.7	15.0
1984.....	[†] 168.6	[†] 130.1	[†] 38.6	[†] 5,618	10,696	7,821	3,075	10,991	7,952	2,439	2.9	13.2

NA Not available. ¹ Excludes Alaska and Hawaii prior to 1960. Includes publicly owned vehicles. Excludes military services' vehicles. ² Includes taxis. ³ Includes standard equipment. ⁴ From prior year shown. ⁵ Excludes motorcycles.

^a Change from 1945.

[†] Estimate.

Source: Registrations—U.S. Federal Highway Administration, *Highway Statistics*, annual; sales—Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts and Figures*, annual.

NO. 1042. MOTOR VEHICLE OUTPUT AND TRADE IN NATIONAL INCOME ACCOUNTS: 1970 TO 1984

[In billions of dollars, except percent. Vehicle output equals final dollar sales value of new vehicles, plus net dollar value of used vehicle sales, adjusted for changes in inventories and net balance of vehicle exports and imports]

YEAR	CURRENT DOLLARS							CONSTANT (1972) DOLLARS						
	GNP ¹	Vehicle output			Vehicle				Vehicle output			Vehicle		
		Total	Per- cent of GNP	Auto	Truck	Ex- port value			Total	Per- cent of GNP	Auto	Truck	Ex- port value	Im- port value
1970.....	993	37.5	3.8	28.7	8.8	1.4	4.4	1,086	39.2	3.6	29.8	9.4	1.5	5.1
1971.....	1,078	50.2	4.7	39.1	11.1	1.8	5.9	1,121	50.1	4.5	38.9	11.2	1.8	8.2
1972.....	1,166	56.2	4.7	41.6	14.6	2.0	6.8	1,186	56.2	4.7	41.6	14.6	2.0	6.8
1973.....	1,326	64.2	4.8	46.2	18.0	2.7	7.8	1,255	64.3	5.1	46.4	17.9	2.7	7.4
1974.....	1,434	58.9	4.1	39.2	19.7	3.7	8.8	1,248	55.0	4.4	37.1	17.9	3.4	7.5
1975.....	1,549	58.3	3.8	40.7	17.6	5.1	8.4	1,234	50.0	4.1	35.7	14.3	4.3	6.4
1976.....	1,718	80.7	4.7	55.9	24.8	5.4	11.0	1,300	64.2	4.9	45.3	18.9	4.2	7.9
1977.....	1,918	98.0	5.1	65.1	32.9	5.6	13.3	1,370	73.9	5.4	50.7	23.2	4.2	8.8
1978.....	2,164	109.7	5.1	69.5	40.2	6.5	17.4	1,439	76.5	5.3	50.3	26.2	4.4	10.2
1979.....	2,418	107.2	4.4	68.0	39.2	8.0	18.6	1,479	70.2	4.7	47.0	23.2	5.1	9.9
1980.....	2,632	87.0	3.3	60.8	26.2	7.1	20.9	1,475	53.3	3.6	39.4	13.9	4.1	10.2
1981.....	2,958	99.9	3.4	70.6	29.3	7.2	22.6	1,512	57.0	3.8	42.8	14.2	3.9	10.1
1982.....	3,069	97.2	3.2	67.0	30.2	5.3	25.3	1,480	53.0	3.6	38.9	14.1	2.7	10.9
1983.....	3,305	125.0	3.8	88.7	36.3	6.1	29.1	1,535	66.6	4.3	49.9	18.7	3.0	12.3
1984.....	3,663	160.6	4.4	106.4	54.2	7.5	37.5	1,639	81.8	5.0	58.1	23.7	3.6	15.5

¹ For definition of gross national product (GNP), see text, p. 427.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929–76*, and *Survey of Current Business*, July issues.

NO. 1043. AUTOMOBILES—FACTORY-INSTALLED EQUIPMENT: 1970 TO 1984

[Refers to model-year production. For certain items, such as air-conditioning, a significant number of units are installed on new vehicles after they leave the factory]

EQUIPMENT	UNITS INSTALLED (mil.)							PERCENT OF CARS PRODUCED						
	1970	1975	1980	1981	1982	1983	1984	1970	1975	1980	1981	1982	1983	1984
Transmission:														
Automatic.....	7.2	6.2	6.1	5.6	4.7	5.2	7.1	91.0	91.6	82.2	85.3	85.8	87.0	84.0
Manual.....	.7	.6	1.3	1.0	.8	.8	1.3	8.9	8.4	17.8	14.6	14.2	13.0	15.0
V-8.....	6.7	4.9	2.3	1.9	1.6	1.8	2.2	84.2	71.4	31.6	29.0	28.9	31.0	27.0
6-cylinder engine.....	1.2	1.3	2.7	2.3	1.7	1.7	2.2	15.7	19.6	36.0	36.0	31.1	29.3	25.0
4-cylinder engine.....	(NA)	.6	2.4	2.2	2.2	2.4	3.9	(NA)	8.0	32.4	35.0	40.0	39.7	46.0
Diesel engine.....	-	-	.4	.5	.3	.1	1.1	-	-	4.9	7.3	4.9	1.4	1.3
Power brakes.....	4.4	5.2	6.2	5.6	5.0	5.6	7.9	56.0	75.8	63.1	66.0	80.2	94.0	94.0
Power steering.....	6.4	6.1	6.2	5.7	4.9	5.4	7.5	81.2	89.7	82.9	87.1	89.7	91.0	90.0
Power windows ¹	1.3	1.6	1.6	1.7	1.8	2.3	3.3	16.7	24.1	22.3	26.6	32.5	39.0	39.0
Air-conditioning.....	4.8	4.9	5.4	5.1	4.5	4.9	6.8	60.9	73.1	72.6	78.4	81.8	82.0	83.0
Tinted glass ²	5.5	5.5	5.9	5.6	4.8	(NA)	7.5	69.5	80.6	80.8	85.3	87.4	(NA)	90.0

- Represents zero. NA Not available. ¹ Includes station wagon power rear windows.

² Covers windshield and other glass.

Source: Chilton Company, Radnor, PA, *Annual Statistical Issue, Automotive Industries*. (Copyright.)

NO. 1044. RECREATIONAL VEHICLES—NUMBER AND RETAIL VALUE OF SHIPMENTS: 1970 TO 1984

TYPE	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
NUMBER (1,000)													
Total.....	380.3	526.8	295.8	339.6	541.1	533.9	526.3	307.7	181.4	239.1	258.0	358.0	398.2
Motorized homes.....	30.3	129.0	68.9	96.6	256.1	280.2	293.6	172.6	99.9	135.2	152.5	223.7	257.3
Travel trailers.....	138.0	212.3	126.3	150.6	189.7	167.9	159.8	90.2	52.0	63.8	65.5	90.0	92.4
Folding camping trailers.....	116.1	97.7	55.2	48.1	53.3	53.9	48.2	31.1	24.5	35.0	34.3	37.5	40.9
Truck campers.....	95.9	89.8	45.4	44.3	42.0	31.9	24.7	13.8	5.0	5.1	5.7	6.8	7.6
RETAIL VALUE (mil. dol.)													
Total.....	1,122	2,322	1,392	2,320	4,284	5,327	5,683	3,538	1,952	2,775	3,505	6,324	7,733
Motorized homes.....	318	1,153	624	1,251	2,923	3,876	4,329	2,682	1,381	2,019	2,701	5,099	6,282
Travel trailers.....	445	843	587	856	1,132	1,229	1,153	725	485	631	666	1,067	1,157
Folding camping trailers.....	175	160	109	101	117	123	116	83	69	105	110	122	266
Truck campers.....	183	167	92	112	112	99	85	48	17	20	28	36	46

Source: Recreation Vehicle Industry Association, Reston, VA, *RVs... The Family Camping Vehicle, A Year-End Report/1984*. Data also in Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

NO. 1045. MOTOR VEHICLE SAFETY DEFECT RECALLS, BY DOMESTIC AND FOREIGN MANUFACTURERS: 1974 TO 1984

[Covers manufacturers reporting to U.S. National Highway Traffic Administration under section 151 of National Traffic and Motor Vehicle Safety Act of 1966, as amended]

MANUFACTURER	Unit	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Motor vehicles:												
Total recall campaigns ¹	Number.....	247	217	209	246	271	275	167	156	135	140	164
Domestic.....	Number.....	208	190	169	195	199	218	129	128	107	110	127
Foreign.....	Number.....	39	27	40	51	72	57	38	28	28	30	37
Total vehicles recalled.....	1,000.....	2,877	2,109	3,492	12,923	9,083	8,919	4,863	9,405	1,914	6,114	7,220
Domestic.....	1,000.....	2,345	1,829	3,019	10,663	7,921	6,997	3,939	7,379	1,401	3,090	6,283
Vehicles recalled by 4 leading auto manufacturers.....	1,000.....	2,194	1,602	2,854	10,331	7,670	6,989	3,730	7,247	1,324	3,021	6,148
Foreign.....	1,000.....	531	280	474	2,230	1,411	1,922	924	2,026	513	3,024	937
Motor vehicle tires:												
Recall campaigns ¹	Number.....	26	22	28	35	31	42	24	25	17	21	16
Tires recalled.....	1,000.....	1,094	72	464	471	14,686	235	7,070	125	131	95	81

¹ A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers, of a motor vehicle safety defect.

Source: U.S. National Highway Traffic Safety Administration, *Motor Vehicles Defect Recall Campaigns*, annual.

NO. 1046. MOTOR VEHICLE ACCIDENTS—NUMBER AND DEATHS: 1960 TO 1984

[1984 data preliminary. See also *Historical Statistics, Colonial Times to 1970*, series Q 208 and Q 224-232]

ITEM	Unit	1960	1965	1970	1972 ¹	1975	1979	1980	1981	1982	1983	1984
Motor vehicle accidents ²	Million.....	10.4	13.2	16.0	17.0	16.5	18.1	17.9	18.0	18.1	18.3	(NA)
Cars.....	Million.....	16.0	20.3	23.5	24.5	22.5	22.9	22.8	22.9	23.2	23.5	(NA)
Trucks.....	Million.....	2.0	2.6	3.2	3.5	3.8	5.4	5.5	5.6	5.8	5.8	(NA)
Motorcycles.....	1,000.....	100	235	305	343	372	480	560	540	550	530	(NA)
Motor vehicle deaths within 1 yr. ³	1,000.....	38.1	49.2	54.6	56.3	45.9	53.5	53.2	51.4	45.8	44.4	45.8
Noncollision accidents ⁴	1,000.....	11.9	14.9	15.4	15.8	12.7	14.8	14.7	14.2	12.6	12.3	12.3
Collision accidents:												
With other motor vehicles.....	1,000.....	14.8	20.8	23.2	23.9	19.5	23.1	23.0	22.2	19.8	19.2	20.4
With pedestrians.....	1,000.....	7.9	8.9	9.9	10.3	8.4	9.8	9.7	9.4	8.4	7.8	8.1
With fixed objects ⁴	1,000.....	1.7	2.2	3.8	3.9	3.1	3.7	3.7	3.6	3.2	3.3	3.2
Deaths within 30 days ⁵	1,000.....	36.4	47.1	52.6	54.6	44.5	51.1	51.1	49.3	43.9	42.6	44.2
Vehicle occupants.....	1,000.....	27.9	36.8	40.6	41.4	32.8	37.2	36.8	35.5	31.2	30.6	31.7
Pedestrians.....	1,000.....	7.2	8.0	9.0	9.2	7.5	8.1	8.1	7.8	7.3	6.8	7.0
Motorcyclists ⁶	1,000.....	.8	1.7	2.3	3.0	3.2	4.9	5.1	4.9	4.5	4.3	4.6
Bicyclists.....	1,000.....	.5	.7	.8	1.0	1.0	.9	1.0	.9	.9	.8	.8
Traffic death rates: ⁷												
Per 100,000 resident population.....	Rate.....	20.2	24.3	25.8	26.2	20.7	22.8	22.6	21.5	19.0	18.2	18.7
Per 100,000 registered vehicles.....	Rate.....	48.9	51.3	47.3	44.5	32.3	32.0	31.6	30.0	26.6	25.1	25.4
Per 100 million vehicle miles.....	Rate.....	5.1	5.3	4.7	4.3	3.4	3.3	3.3	3.2	2.8	2.6	2.6
Per 100,000 licensed drivers.....	Rate.....	41.7	47.8	47.2	46.1	34.3	35.7	35.2	34.1	29.2	27.6	28.1
Motor vehicle accidents ⁸	Million.....	11.4	14.7	22.1	24.9	24.9	26.7	24.1	28.3	28.5	29.4	(NA)
Injuries ⁹	1,000.....	3,078	3,982	4,983	5,190	4,978	5,681	5,230	5,019	4,490	4,665	(NA)
Economic loss ⁹	Bl. dol.....	10.2	14.2	23.5	28.7	36.1	56.4	57.1	59.7	60.2	62.7	(NA)

NA Not available. ¹ Represents peak year for deaths from motor vehicle accidents. ² Covers only accidents occurring on the road. ³ Deaths that occur within one year of accident. Includes collision categories not shown separately. ⁴ Beginning 1970, not comparable with previous years due to classification change. ⁵ Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System. ⁶ Includes motor scooters and motorized bicycles (mopeds). ⁷ Based on 30-day definition of traffic deaths. ⁸ Source: Insurance Information Institute, New York, NY, *Insurance Facts*. Estimates based on official reports from a representative cross-section of States, includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. ⁹ Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage.

Source: Except as noted, National Safety Council, Chicago, IL, *Accident Facts*, annual. (Copyright.)

NO. 1047. DEATHS FROM MOTOR VEHICLE ACCIDENTS, BY STATE: 1970 TO 1982

[Data differ from table 1046 because data are based on date of death, not date of accident. Data reflect State where death occurred. Includes deaths of nonresidents of U.S. Deaths for 1979-80 classified according to the ninth revision of the *International Classification of Diseases*, for earlier years classified according to the revision in use at the time; see text, p. 53. Data based on

REGION, DIVISION, AND STATE	1970	1972 ¹	1975	1980	1981	1982	REGION, DIVISION, AND STATE	1970	1972 ¹	1975	1980	1981	1982
U.S.	54,845	56,528	46,032	53,476	51,669	46,020	S.A.	9,796	10,600	8,358	9,767	9,689	8,487
Region:							DE.....	158	130	129	164	116	131
Northeast.....	8,850	8,992	7,431	8,255	7,818	6,920	MD.....	809	852	686	822	812	679
Midwest.....	14,629	14,670	11,293	12,244	11,333	9,644	DC.....	140	100	91	79	81	71
South.....	20,792	21,964	18,029	21,014	21,217	19,412	VA.....	1,251	1,256	1,069	1,111	1,051	927
West.....	10,574	10,902	9,279	11,963	11,301	10,044	WV.....	561	578	499	583	486	485
N.E.	2,095	2,180	1,953	2,246	1,931	1,747	NC.....	1,801	2,026	1,580	1,588	1,563	1,371
ME.....	288	252	235	264	221	185	SC.....	1,070	1,148	837	895	871	759
NH.....	182	172	155	192	154	182	GA.....	1,825	1,840	1,420	1,558	1,511	1,288
VT.....	116	126	124	131	103	106	E.S.C.....	2,181	2,570	2,027	2,967	3,198	2,776
MA.....	918	1,042	895	933	814	711	KY.....	4,850	4,972	3,881	3,995	3,971	3,772
RI.....	143	144	140	142	131	122	AL.....	1,081	1,114	885	865	865	857
CT.....	448	444	404	584	508	441	TN.....	1,525	1,526	1,280	1,280	1,230	1,172
M.A.	6,755	6,812	5,478	6,009	5,887	5,173	LA.....	1,297	1,356	1,087	1,054	1,084	966
NY.....	3,117	3,140	2,277	2,717	2,623	2,206	MS.....	947	976	629	796	792	777
NJ.....	1,289	1,352	1,099	1,130	1,203	1,086	W.S.C.	6,146	6,392	5,790	7,252	7,557	7,153
PA.....	2,349	2,320	2,102	2,162	2,061	1,881	AR.....	595	750	577	607	554	585
E.N.C.	9,623	9,514	7,361	8,000	7,423	6,485	LA.....	1,194	1,136	993	1,261	1,270	1,118
OH.....	2,468	2,336	1,652	1,976	1,745	1,594	OK.....	787	792	748	1,006	1,049	1,115
IN.....	1,587	1,578	1,139	1,213	1,212	1,036	TX.....	3,570	3,714	3,472	4,378	4,654	4,395
IL.....	2,267	2,216	1,816	1,985	1,882	1,591	Mt.	3,549	3,764	3,206	4,071	3,922	3,488
MI.....	2,172	2,236	1,811	1,817	1,635	1,451	MT.....	340	408	294	339	301	261
WI.....	1,109	1,148	943	1,009	949	813	ID.....	320	324	291	345	246	214
W.N.C.	5,006	5,156	3,932	4,244	3,910	3,159	WY.....	210	198	210	246	276	214
MN.....	1,028	1,052	798	900	812	603	CO.....	697	746	621	783	800	706
IA.....	946	904	714	662	659	496	NM.....	568	568	556	617	501	508
MO.....	1,479	1,500	1,105	1,239	1,097	936	AZ.....	782	858	713	983	952	791
ND.....	194	208	183	184	190	178	UT.....	354	354	285	370	392	332
SD.....	240	312	216	238	186	165	NV.....	278	290	236	388	355	318
NE.....	435	504	385	406	383	266	Pac.	7,025	7,138	6,073	7,892	7,379	6,566
KS.....	684	678	531	615	583	517	WA.....	902	836	804	1,048	936	808
							OR.....	739	774	582	698	675	549
							CA.....	5,114	5,300	4,414	5,860	5,498	4,948
							AK.....	107	64	120	91	102	85
							HI.....	163	164	153	195	168	156

¹ Represents peak year for deaths from motor vehicle accidents.Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

Motor Vehicle Accidents

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NO. 1048. FATAL MOTOR-VEHICLE ACCIDENTS—NUMBER OF ACCIDENTS, OCCUPANTS, AND FATALITIES, BY TYPE OF VEHICLE: 1980 TO 1983

[Based on data from the Fatal Accident Reporting System]

TYPE OF VEHICLE	ACCIDENTS ¹				OCCUPANTS				OCCUPANT FATALITIES			
	1980	1981	1982	1983	1980	1981	1982	1983	1980	1981	1982	1983
Total ²	45,284	44,000	39,092	37,976	103,424	102,792	93,148	90,990	41,927	40,424	35,646	34,843
Passenger cars ³	31,550	30,828	27,548	26,698	66,731	66,542	59,327	57,494	27,449	26,645	23,330	22,979
Mini-compact.....	3,263	3,635	3,559	3,753	5,530	6,282	6,198	6,431	2,966	3,279	3,194	3,278
Subcompact.....	4,875	5,266	4,649	4,884	8,322	8,999	8,161	8,535	4,158	4,432	3,881	4,000
Compact.....	1,118	1,363	1,565	1,936	1,920	2,251	2,667	3,363	927	1,052	1,210	1,499
Intermediate.....	5,224	5,698	5,305	5,352	9,271	10,328	9,857	9,773	3,878	4,107	3,919	3,985
Full size.....	7,026	6,653	5,691	5,361	12,548	11,925	10,259	9,630	4,831	4,245	3,651	3,489
Largest size.....	10,817	9,934	8,343	7,524	20,006	18,396	15,318	13,996	6,746	5,955	4,779	4,470
Unknown.....	5,134	4,596	3,863	3,264	9,134	8,363	6,887	5,766	3,943	3,575	2,696	2,258
Motorcycles.....	4,879	4,671	4,201	4,045	6,291	5,948	5,393	5,119	4,961	4,746	4,270	4,104
Moped, mini bike.....	180	157	177	158	215	192	229	200	183	160	183	161
Light trucks ⁴	10,841	10,301	9,597	9,347	19,029	18,358	17,378	17,206	6,566	6,137	5,590	5,395
Pickup.....	8,786	8,356	7,722	7,698	14,855	14,306	13,536	13,513	5,463	5,097	4,677	4,579
Van.....	2,009	1,961	1,722	1,615	3,779	3,759	3,414	3,300	1,000	958	814	712
Medium trucks.....	1,076	871	666	672	1,428	1,190	908	937	285	235	154	172
Heavy trucks ⁵	4,036	4,121	3,754	3,968	4,928	4,894	4,647	4,885	976	897	789	807
Single-unit ⁶	377	333	283	323	453	386	356	407	89	57	52	80
Two-unit ⁶	3,396	3,555	3,072	3,144	4,116	4,292	3,787	3,829	812	782	663	648
Multi-unit.....	148	150	129	168	173	183	155	195	41	34	25	36
Buses.....	329	340	288	305	992	1,014	967	1,102	46	56	35	53

¹ Each accident involving multiple types of vehicles is recorded in each category; therefore, the aggregate of all types will exceed the total number of accidents. ² Includes other types and unknown, not shown separately. ³ Mini-compact wheel base less than 95 in.; subcompact, 95 in. to 99 in.; compact, 100 in. to 104 in.; intermediate, 105 in. to 109 in.; full size, 110-114 in.; and largest size greater than 115 in. ⁴ Gross vehicle weight greater than 26,000 lbs. ⁵ Tractor-trailer combination.

Source: U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System*, annual.

NO. 1049. HIGHWAY MILEAGE, VEHICLE MILES OF TRAVEL, ACCIDENTS, AND FATALITIES, BY TYPE OF HIGHWAY SYSTEM: 1975 TO 1983

TYPE	Highway mileage (1,000)	Vehicle miles (bil.)	Daily vehicle miles per mile	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES ²	
				Number	Rate ¹	Number (1,000)	Rate ¹	Number	Rate ¹
1975, total	3,838	1,330	1,059	39,993	3.01	1,861	140	39,993	3.01
1980, total	3,857	1,530	1,084	45,271	2.98	2,008	132	51,077	3.36
1982, total	3,866	1,592	1,128	38,999	2.45	1,966	124	43,846	2.75
1983, total	3,880	1,649	1,165	37,966	2.30	2,005	122	42,596	2.58
Urban.....	662	949	3,824	16,886	1.78	1,393	147	18,303	1.93
Rural.....	3,217	700	597	21,080	3.01	612	87	24,293	3.47
Interstate.....	43	336	21,387	3,591	1.07	128	38	4,107	1.22
Urban.....	10	145	51,142	1,719	.90	92	63	1,929	1.01
Rural.....	33	191	12,094	1,872	1.29	37	19	2,178	1.50
Noninterstate.....	3,837	1,313	938	34,375	2.62	1,877	143	38,489	2.93
Urban.....	652	804	3,182	15,167	2.00	1,301	162	16,374	2.16
Rural.....	3,185	509	478	19,208	3.46	576	113	22,115	3.98
Federal-aid highway system, total.....	835	1,327	4,357	29,033	2.19	1,350	102	32,937	2.48
Urban.....	179	765	11,735	13,262	1.73	971	127	14,476	1.89
Rural.....	658	563	2,350	15,771	2.80	379	67	18,461	3.28
Interstate.....	43	336	21,387	3,591	1.07	128	38	4,107	1.22
Other primary arterial.....	257	483	5,151	12,220	2.53	450	93	14,253	2.95
Urban.....	31	213	18,814	6,680	1.68	253	119	3,987	1.87
Rural.....	226	270	3,271	5,540	3.20	196	73	10,266	3.81
Urban (arterial and collector).....	137	360	7,189	7,963	2.21	626	174	8,560	2.36
Secondary (collector).....	397	148	1,022	5,259	3.55	146	99	6,017	4.08
Non-Federal-aid highway system, total.....	3,045	322	290	8,933	2.78	656	204	9,659	3.00
Urban.....	484	184	1,042	3,624	1.97	422	229	3,827	2.08
Rural.....	2,561	138	147	5,309	3.85	234	169	5,832	4.23
Collector.....	356	71	550	2,199	3.07	97	136	2,416	3.38
Urban.....	19	19	2,730	332	1.73	22	116	355	1.85
Rural.....	337	52	426	1,867	3.57	75	143	2,061	3.94
Local.....	2,677	222	227	6,052	2.73	532	239	6,516	2.93
Urban.....	456	140	842	2,679	1.91	376	288	2,932	2.02
Rural.....	2,221	82	101	3,373	4.12	156	191	3,584	4.50

¹ Rate per 100 million vehicle miles. ² Represents fatalities occurring within 30 days of accident. Excludes nontraffic accidents which, for example, occur outside the rights-of-way or other boundaries of roads that are open for public use.

Source: U.S. Federal Highway Administration, *Fatal and Injury Accident Rates on Public Roads in the United States*, December 1983.

NO. 1050. LICENSED DRIVERS, 1984, AND FATAL MOTOR-VEHICLE ACCIDENTS, AND ALCOHOL INVOLVEMENT, 1983, BY AGE OF DRIVER

ITEM	Unit	Total	AGE OF DRIVER							
			16-17 years	18-21 years	22-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 years and over
Licensed drivers, ¹ 1984	1,000	157,305	4,372	14,826	12,505	39,316	28,128	20,954	19,498	17,577
Percent distribution	Percent	100.0	2.8	9.4	7.9	25.0	17.9	13.3	12.4	11.2
Licensed drivers involved in fatal accidents, 1983	1,000	56	3	10	7	15	8	5	4	4
Percent distribution	Percent	100	5	18	13	27	14	9	7	7
Drinking drivers fatal accidents, ² 1983	Number	21,000	850	4,670	3,330	7,140	2,200	1,590	830	470
Percent distribution	Percent	100	4	22	16	34	10	8	4	2

¹ Source: U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual. ² Estimate based on 15 "good" reporting States in the *Fatal Accident Reporting System*.

Source: Except as noted, U.S. National Highway Traffic Safety Administration, unpublished data from the *Fatal Accident Reporting System*.

NO. 1051. MOTOR VEHICLE TRAVEL, BY TYPE OF VEHICLE, AND SPEED: 1970 TO 1983

[Travel in billions of vehicle-miles, except as indicated. Travel estimates based on automatic traffic recorder data. Speed trend data for 1970-1975 were collected by several State highway agencies, normally during summer months; beginning Oct. 1975 all States have monitored speeds at locations on several highway systems as part of 55 mile per hour Speed Limit Monitoring Program. See also *Historical Statistics, Colonial Times to 1970*, series Q 199-207]

YEAR	VEHICLE-MILES OF TRAVEL (bil.)				AVG. MILES PER VEHICLE (1,000)			MOTOR VEHICLE SPEED ²				
	Total	Cars ¹	Buses	Trucks	Passenger vehicles		Trucks	Vehicles recorded (1,000)	Avg. speed (miles per hour)	Percent of vehicles exceeding—		
					Cars ¹	Buses				55 m.p.h.	60 m.p.h.	65 m.p.h.
1970.....	1,121	901	5.0	215	9.8	13.3	11.5	200	63.8	87	89	44
1971.....	1,186	954	5.1	227	9.9	12.8	11.5	178	64.7	88	70	47
1972.....	1,268	1,004	5.1	260	10.0	12.6	12.2	160	64.9	89	71	49
1973.....	1,309	1,037	5.0	267	9.8	11.7	11.5	181	65.0	89	72	50
1974.....	1,286	1,013	5.1	268	9.2	11.3	10.9	203	57.6	85	29	9
1975.....	1,330	1,051	5.1	275	9.4	11.1	10.6	102	57.6	68	27	7
1976.....	1,412	1,098	5.8	308	9.5	12.0	11.1	515	58.2	69	32	10
1977.....	1,477	1,141	5.9	330	9.6	12.0	11.1	500	58.8	74	35	10
1978.....	1,548	1,194	6.1	348	9.8	12.1	11.0	468	58.8	74	36	10
1979.....	1,529	1,163	6.1	360	9.3	11.7	10.8	506	58.3	72	32	9
1980.....	1,521	1,130	6.4	385	8.9	12.1	11.4	667	57.5	66	25	7
1981.....	1,556	1,125	6.5	425	8.7	12.0	12.3	3,048	57.9	68	30	9
1982.....	1,592	1,192	6.6	394	9.2	11.8	11.2	4,895	59.0	73	40	14
1983.....	1,649	1,234	6.7	409	9.3	11.5	11.2	7,856	59.1	74	41	15

¹ Includes taxicabs and motorcycles. ² For 1970-1979, based on free flow speed of vehicles recorded on level, straight sections of rural interstate highways during off-peak hours; beginning 1980, based on all vehicles on rural interstate highways. Beginning 1976, for year ending Sept. 30.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and unpublished data.

NO. 1052. DOMESTIC MOTOR FUEL CONSUMPTION, BY TYPE OF VEHICLE: 1970 TO 1983

[Comprises all fuels (gas, diesel, or other fuels) used for propulsion of vehicles under State motor fuels laws. Excludes Federal purchases for military use. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series Q 156-162]

YEAR	FUEL CONSUMPTION					AVERAGE FUEL CONSUMPTION PER VEHICLE (gal.)				AVERAGE MILEAGE PER GALLON			
	All vehicles (bil. gal.)	Avg. annual percent change ¹	Cars ² (bil. gal.)	Buses ³ (bil. gal.)	Trucks ⁴ (bil. gal.)	All vehicles	Cars ²	Buses ³	Trucks ⁴	All vehicles	Cars ²	Buses ³	Trucks ⁴
1970	92.3	5.4	65.8	.9	25.6	830	722	2,491	1,365	12.14	13.58	5.34	8.39
1971	97.6	5.7	69.5	.9	27.1	838	723	2,382	1,368	12.16	13.73	5.38	8.38
1972	105.1	6.7	73.5	.9	30.7	859	730	2,165	1,446	12.07	13.67	5.80	8.59
1973	110.5	6.2	78.0	.8	31.6	851	736	1,991	1,361	11.85	13.29	5.86	8.45
1974	106.3	-3.8	74.2	.9	31.2	788	676	1,919	1,268	12.09	13.65	5.90	8.57
1975	109.0	2.5	76.5	.9	31.6	790	685	1,937	1,227	12.20	13.74	5.75	8.58
1976	115.7	6.2	78.8	1.0	35.9	807	685	2,015	1,292	12.20	13.93	5.98	8.58
1977	119.6	3.4	80.7	1.0	38.0	804	680	2,002	1,284	12.34	14.15	5.98	8.68
1978	125.1	4.6	83.8	1.0	40.3	813	688	2,041	1,270	12.38	14.26	5.95	8.64
1979	122.1	-2.4	80.2	1.0	40.9	765	638	1,986	1,225	12.52	14.49	5.97	8.82
1980	115.0	-5.8	73.7	1.1	40.1	711	579	2,034	1,194	13.23	15.32	5.95	9.58
1981	114.5	-4	71.7	1.1	41.6	697	555	2,019	1,209	13.60	15.68	5.92	10.21
1982	113.4	-9	72.8	1.1	39.4	686	563	2,003	1,122	14.05	16.25	5.93	10.00
1983	115.4	1.8	73.4	1.1	40.9	681	555	1,946	1,118	14.29	16.70	5.92	10.00

¹ From prior year shown. For 1970, change from 1965. ² Includes taxicabs and motorcycles. ³ Includes school buses.

⁴ Includes combinations.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1053. TRAVEL BY U.S. RESIDENTS BY SELECTED TRIP CHARACTERISTIC: 1979 TO 1984

(In millions. Represents trips to places 100 miles or more away from home)

CHARACTERISTIC	TRIPS						PERSON-TRIPS					
	1979	1980	1981	1982	1983	1984	1979	1980	1981	1982	1983	1984
Total	556.7	500.6	587.2	537.3	540.9	528.2	1,197.7	1,045.5	1,152.0	1,069.3	1,057.8	1,012.0
Purpose:												
Visit friends and relatives ..	201.7	166.0	201.3	191.3	181.9	180.3	459.6	377.9	421.0	409.8	384.6	384.5
Other pleasure ..	178.9	176.5	187.4	180.4	189.6	170.4	423.0	385.3	412.3	377.7	401.4	349.7
Business or convention ..	112.0	97.1	113.6	101.9	103.6	114.5	166.0	149.5	157.3	152.4	146.4	156.1
Other ..	64.1	60.7	84.9	63.7	65.8	63.0	149.1	131.8	161.4	129.4	125.4	121.7
Mode of transport:												
Auto, truck, recreation vehicle ..	412.1	371.4	456.2	415.7	396.1	380.9	962.2	836.5	957.4	881.5	839.8	794.0
Airplane ..	104.9	104.9	99.9	94.6	116.2	118.8	189.6	152.4	144.0	144.9	174.2	174.5
Other ..	39.7	26.8	31.1	27.0	28.6	28.5	65.9	56.6	50.6	42.9	43.8	43.5
Vacation trip ..	305.4	289.7	340.2	314.6	307.8	333.3	719.8	646.9	737.9	660.2	642.3	689.6
Weekend trip ..	285.4	225.0	259.0	238.4	225.5	211.4	668.7	502.8	545.7	505.3	485.0	434.9

Source: U.S. Travel Data Center, Washington, DC, 1984 National Travel Survey. (Copyright.)

NO. 1054. BUSINESS RECEIPTS AND EMPLOYMENT OF SELECTED TRAVEL INDUSTRY SECTORS: 1973 TO 1984

YEAR	BUSINESS RECEIPTS (mil. dol.)						EMPLOYMENT (1,000)					
	Travel industry, total	Transportation			Motel, hotel	Eating and drinking places	Amusement and recreation services	Travel industry, total	Transportation			Amusement and recreation services
		Air ¹	Bus	Rail ²					Intercity high-way passengers	Air	Eating and drinking places	
1973	75,018	8,518	1,023	(NA)	10,955	40,402	14,120	4,812.2	41.3	365.7	3,053.8	807.7
1974	84,357	9,903	1,152	177	11,757	44,673	16,695	5,018.4	42.4	367.8	3,231.2	823.5
1975	93,803	10,301	1,172	214	13,002	51,057	18,047	5,228.5	39.9	382.8	3,379.5	849.5
1976	106,659	12,104	1,232	235	15,129	57,211	20,748	5,591.6	39.6	373.8	3,656.2	885.2
1977	117,856	13,773	1,331	260	16,413	63,276	22,803	5,951.0	37.4	386.3	3,948.6	913.0
1978	132,543	15,753	1,420	259	20,070	71,817	23,224	6,375.2	36.1	407.9	4,277.2	945.6
1979	153,889	18,931	1,664	325	25,229	81,990	25,750	6,719.9	36.7	438.2	4,513.1	1,019.9
1980	170,718	23,317	1,943	375	26,832	89,924	28,327	6,918.3	37.9	453.4	4,625.8	1,037.7
1981	189,246	25,504	2,069	428	31,572	97,969	31,704	7,102.2	38.1	454.6	4,749.5	1,076.4
1982	204,297	25,442	2,103	427	32,749	104,427	39,149	7,205.6	38.8	443.6	4,831.2	1,092.8
1983	223,431	27,779	2,211	461	35,897	114,684	42,399	7,481.3	35.5	455.2	5,041.8	1,131.1
1984	242,279	31,677	2,280	516	38,917	124,109	44,780	7,960.3	37.4	493.0	5,403.3	1,225.5

NA Not available. ¹U.S. certificated carriers in domestic service. ²Covers fiscal years October 1 through September 30.

Source: U.S. Travel Data Center, Washington, DC, The 1983-84 Economic Review of Travel in America. (Copyright.)

NO. 1055. DOMESTIC TRAVEL EXPENDITURES BY STATE: 1983

[Represents U.S. spending on domestic overnight trips and day trips of 100 miles or more away from home. Excludes spending by foreign visitors and by U.S. residents in U.S. territories and abroad]

STATE	Total (mil. dol.)	Rank	Percent change, 1982-1983	STATE	Total (mil. dol.)	Rank	Percent change, 1982-1983	STATE	Total (mil. dol.)	Rank	Percent change, 1982-1983
U.S. total ...	195,884	(x)	5.9	KS	1,565	33	1.8	ND	642	46	1.6
AL.....	1,337	37	1.3	LA.....	3,166	20	-2.5	OH.....	5,768	8	6.0
AK.....	810	45	-1.3	ME.....	1,414	35	14.0	OK.....	2,573	25	-3.5
AZ.....	3,123	21	12.8	MD.....	3,450	19	11.8	OR.....	2,178	28	4.8
CA.....	1,656	31	7.8	MA.....	4,725	12	8.0	PA.....	7,399	6	4.8
CO.....	25,943	1	5.5	MI.....	5,391	10	5.1	RI.....	340	51	-4.2
CT.....	4,081	16	1.7	NE.....	4,498	13	13.4	SC.....	2,579	24	4.5
DE.....	2,158	29	1.4	MO.....	1,102	40	2.9	SD.....	469	50	1.5
FL.....	4,76	49	2.1	MS.....	4,342	15	4.6	TN.....	2,938	22	-7.2
GA.....	1,060	42	9.2	MT.....	623	47	2.3	TX.....	13,531	4	-1.3
HI.....	16,615	2	13.8	NE.....	1,070	41	2.3	UT.....	1,413	36	14.7
ID.....	4,779	11	5.4	NH.....	5,944	7	7.8	VT.....	963	43	3.9
IL.....	2,403	26	5.1	NV.....	1,130	39	9.1	VA.....	3,639	17	8.2
IN.....	892	44	11.5	NJ.....	8,361	5	17.2	WA.....	2,692	23	5.8
IA.....	5,690	9	4.5	NM.....	1,471	34	10.8	WV.....	1,153	38	3.5
KS.....	2,369	27	3.1	NY.....	13,611	3	5.6	WI.....	3,597	18	3.5
LA.....	1,594	32	-	NC.....	4,435	14	9.6	WY.....	613	48	-12.3
KY.....	2,113	30	3.5								

- Represents zero. X Not applicable.

Source: U.S. Travel Data Center, Washington, DC, Impact of Travel on State Economies, 1983. (Copyright.)

NO. 1056. VOLUME AND CHARACTERISTICS OF TRAVEL: 1983

[Covers only travel day trips regardless of trip length. VMT=Vehicle-miles of travel; PMT=Person-miles of travel]

CHARACTERISTIC	HOUSEHOLD			PERSON		PERCENT DISTRIBUTION			
	Number of trips (mil.)	VMT (bil.)	Average trip length (miles)	Number of trips (mil.)	PMT (bil.)	Household		Persons	
						Number of trips	VMT	Number of trips	PMT
Total	126,874	1,002,139	7.9	224,385	1,946,662	100.0	100.0	100.0	100.0
Purpose:									
Trip to work.....	35,375	302,185	8.5	45,826	391,544	27.9	30.3	20.4	20.2
Work-related business.....	3,696	42,223	11.4	15,263	115,805	2.9	4.2	2.4	5.8
Shopping.....	25,353	133,823	5.2	40,655	219,112	20.0	13.3	18.1	11.2
Other family or personal business.....	23,245	155,131	6.7	38,158	256,929	18.3	15.5	18.1	13.2
School/church.....	7,444	40,990	5.5	26,486	129,953	5.9	4.1	11.8	6.7
Visit friends or relatives.....	12,543	136,801	10.8	24,743	283,520	9.9	13.6	11.0	14.6
Other social or recreational.....	15,416	139,417	8.7	35,457	302,145	12.2	13.3	15.8	15.5
Vacation.....	187	21,317	114.0	630	155,551	.1	2.1	.3	8.0
Other.....	3,605	37,252	7.2	9,147	92,303	2.8	3.6	4.1	4.7
Means of transportation:									
Automobiles.....	95,497	742,301	9.8	139,387	1,181,626	75.3	74.2	82.1	69.8
Station wagons.....	10,920	81,471	7.5	16,194	139,253	8.6	8.1	7.2	7.2
Passenger van.....	2,803	21,401	7.6	4,746	51,289	2.2	2.1	2.1	2.6
Pickup truck ¹	13,851	122,504	8.8	18,372	176,926	10.9	12.2	8.2	9.1
Other.....	² 3,803	² 34,462	9.0	² 45,686	² 397,588	² 3.0	² 3.4	² 20.4	² 20.4

¹ Excludes pickup with camper and other trucks. ² Includes other vans, pickups with campers, other trucks, motorized campers, motorcycles, motorized bicycles and other privately owned vehicles not listed elsewhere. ³ Includes other vans, motorized campers, motorcycles, trains, streetcars, elevated rail, airplane, commercial taxis, buses, school buses, bicycles, walking and other forms of transportation not included elsewhere.

NO. 1057. FREQUENCY OF SEAT BELT AND MOTORCYCLE HELMET USAGE, BY SEX: 1983

[Covers persons 5 years old and over]

SEX	NUMBER (1,000)					PERCENT				
	Total ¹	Wearing				Total ¹	Wearing			
		Always	Most of the time	Sometimes	Never		Always	Most of the time	Sometimes	Never
SEAT BELTS										
All persons	184,139	31,858	17,800	48,184	85,876	100.0	17.2	9.7	26.2	46.8
Male.....	90,180	15,388	8,508	23,003	42,966	100.0	17.1	9.4	25.5	47.7
Female.....	93,979	16,268	9,292	25,181	42,910	100.0	17.3	9.9	26.8	46.7
HELMETS										
All persons	2,952	1,929	281	256	459	100.0	65.3	9.5	8.7	15.8
Male.....	2,119	1,367	257	219	249	100.0	64.5	12.1	10.3	11.8
Female.....	833	562	24	37	210	100.0	67.5	2.9	4.4	25.2

¹ Includes "unknown" not shown separately.

Source of tables 1056 and 1057: U.S. Federal Highway Administration, unpublished data based on the Nationwide Personal Transportation Survey.

NO. 1058. HOUSEHOLD MOTOR VEHICLES, MILES DRIVEN, AND EXPENDITURES, BY HOUSEHOLD CHARACTERISTIC: 1983

[Excludes Alaska and Hawaii. Household vehicles include all motorized-vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability]

HOUSEHOLD CHARACTERISTIC	Households with motor vehicles (mil.)	VEHICLES		MILES DRIVEN		MOTOR FUEL EXPENDITURES	
		Number (mil.)	Number per household	Total (bil.)	Number per household	Total (bil. dol.)	Average per household
Total	72.2	129.3	1.8	1,215	16,830	95.1	\$1,317
Northeast.....	13.9	23.9	1.7	227	16,324	17.5	1,254
Midwest.....	18.3	32.5	1.8	298	16,299	24.0	1,314
South.....	24.7	45.1	1.8	436	17,689	34.2	1,385
West.....	15.3	27.7	1.8	254	16,541	19.5	1,269
Family income:							
Less than \$5,000.....	3.2	4.1	1.3	33	10,280	2.7	852
\$5,000-\$9,999.....	9.8	14.4	1.5	118	11,975	10.0	1,020
\$10,000-\$14,999.....	10.5	16.1	1.5	144	13,682	11.6	1,104
\$15,000-\$19,999.....	9.7	16.4	1.7	147	15,226	12.4	1,277
\$20,000-\$24,999.....	8.7	15.4	1.8	144	16,845	11.2	1,287
\$25,000-\$34,999.....	14.7	28.3	1.9	282	19,252	21.4	1,481
\$35,000 or more.....	15.6	34.6	2.2	347	22,167	25.8	1,650

Source: U.S. Energy Information Administration, Residential Transportation Energy Consumption Survey, Consumption Patterns of Household Vehicles, 1983.

No. 1059. HOUSEHOLD MOTOR VEHICLE TRANSPORTATION, BY VEHICLE MODEL YEAR: 1983

[Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability]

HOUSEHOLD CHARACTERISTICS	VEHICLES (millions)				MILES PER GALLON			
	Total	Model year			Average	Model year		
		1973 and earlier	1974 to 1978	1979 and later		1973 and earlier	1974 to 1978	1979 and later
Total	129.3	35.2	48.4	44.8	15.1	12.7	13.7	18.6
Northeast.....	23.9	5.3	9.1	9.3	15.6	12.9	13.7	19.1
Midwest.....	32.5	7.8	13.1	11.6	14.8	12.1	13.3	18.4
South.....	45.1	12.1	17.1	15.5	15.0	12.7	13.7	18.2
West.....	27.7	10.0	9.1	8.5	15.4	12.9	14.5	19.0
In metropolitan areas.....	96.3	25.7	35.9	34.2	15.3	12.5	13.9	18.7
Outside metropolitan areas.....	32.9	9.5	12.5	10.6	14.8	13.1	13.1	18.2
Family income:								
Less than \$5,000.....	4.1	2.0	1.3	.8	14.2	12.1	14.7	18.6
\$5,000-\$9,999.....	14.4	5.5	5.6	3.1	13.9	12.2	13.5	17.4
\$10,000-\$14,999.....	16.1	5.5	6.2	4.3	14.7	12.6	13.8	18.9
\$15,000-\$19,999.....	16.4	5.1	6.8	4.4	14.0	11.9	13.0	18.4
\$20,000-\$24,999.....	15.4	4.0	5.7	5.7	15.3	13.1	13.7	18.5
\$25,000-\$34,999.....	28.3	6.6	10.9	10.7	15.6	13.1	13.8	18.6
\$35,000 or more.....	34.6	6.5	12.0	15.9	16.1	13.2	14.0	18.7

Source: U.S. Energy Information Administration, *Residential Transportation Energy Consumption Survey, Consumption Patterns of Household Vehicles, 1983*.

No. 1060. DOMESTIC MOTOR GASOLINE SUPPLY: 1973 TO 1985

[In 1,000 barrels per day, except as noted]

YEAR	SUPPLY ¹			Pro-duction	Net im-ports	Stocks ² (mil. bbls.)	YEAR AND MONTH	SUPPLY ¹			Pro-duction	Net im-ports	Stocks ² (mil. bbls.)
	Total	Unleaded						Total	Unleaded				
		Total	Per-cent						Total	Per-cent			
1973, avg	6,674	(NA)	(NA)	6,535	130	209							
1974, avg	6,537	(NA)	(NA)	6,360	202	218							
1975, avg	6,675	(NA)	(NA)	6,520	182	235	1984:						
1976, avg	6,978	1,508	21.6	6,841	128	231	March	6,528	3,750	57.4	6,359	346	243
1977, avg	7,177	1,876	27.5	7,033	215	258	June	7,107	4,214	59.3	6,819	192	246
1978, avg	7,412	2,521	34.0	7,169	189	238	Sept.	6,589	3,973	60.3	6,516	347	234
1979, avg	7,034	2,798	39.8	6,852	181	237	Dec.	6,555	4,168	63.6	6,475	292	243
1980, avg	6,579	3,067	46.6	6,506	139	261	1985:						
1981, avg	6,568	3,264	49.5	6,405	155	253	March ^a	6,629	4,169	63.2	6,041	470	220
1982, avg	6,539	3,409	52.1	6,338	177	235	June ^a	6,975	4,456	63.9	6,766	384	220
1983, avg	6,822	3,647	55.1	6,340	237	222							
1984, avg	6,693	3,987	59.6	6,453	293	243							

NA Not available. ¹ Production plus net imports less net increase in primary stocks. ² End of year or month.

³ Preliminary.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, June 1985, and earlier issues.

No. 1061. GASOLINE RETAIL PRICES—SELECTED COUNTRIES: 1973 TO 1983

[In U.S. dollars per U.S. gallon. As of July, except as indicated. Price includes tax except as noted. For most countries, based on exchange rates in effect as of July 31 of year shown]

COUNTRY AND TYPE	1973	1975	1980	1982	1983	COUNTRY AND TYPE	1973	1975	1980	1982	1983
United States: ¹						Germany, F.R., Bonn:					
Regular unleaded.....	(NA)	(NA)	1.25	1.30	1.24	Regular.....	1.18	1.25	2.46	2.04	1.89
Regular, leaded.....	.40	.57	1.19	1.22	1.16	Tax ⁴.....	.72	.65	1.23	.82	.75
Premium, leaded ².....	.45	.61	1.28	1.38	1.37	Premium.....	1.31	1.34	2.57	2.15	2.00
Tax ³.....	.11	.12	.14	.14	.19	Canada, Ottawa:					
France, Paris:						Regular.....	.49	.66	.81	1.29	1.42
Regular.....	1.06	1.56	2.97	2.24	2.25	Tax.....	.19	.23	.25	.32	.36
Tax.....	.82	.94	1.70	1.22	1.19	Premium.....	.53	.67	.89	1.40	1.54
Premium.....	1.15	1.69	3.17	2.41	2.39	Mexico, Mexico City:					
Italy, Rome:						Regular.....	.24	.64	*.45	.48	.61
Regular.....	.99	1.68	3.08	2.65	2.81	Tax.....	(NA)	.31	*.15	.33	.36
Tax.....	.79	1.15	1.89	1.60	1.84	Premium.....	.36	.91	*1.13	.80	.89
Premium.....	1.05	1.71	3.15	2.79	2.93	Japan, Tokyo:					
United Kingdom:						Regular.....	.83	1.36	2.72	2.46	2.44
Regular.....	.78	1.27	2.60	(NA)	(NA)	Tax ⁴.....	.42	.45	.93	.80	.85
Tax ⁴.....	.48	.41	1.24	(NA)	(NA)	Premium.....	.98	1.83	2.89	2.61	2.60
Premium.....	.81	1.31	2.65	(NA)	2.31						

NA Not available. ¹ 1973 prices for regular and premium in Washington, DC; all other data are national averages. Source: 1973—Energy Information Administration, *International Energy Annual*; thereafter, *Monthly Energy Review*. ² Beginning 1982, prices are for unleaded premium. ³ Source: PennWell Publishing Co., Tulsa, OK, *Oil and Gas Journal*, weekly. ⁴ Excludes import duty and value-added tax, if any. ⁵ January 1981.

Source: Except as noted, U.S. Energy Information Administration; Regular—*International Petroleum Annual*; Premium—*International Energy Annual*.

No. 1062. 12-YEAR COST OF OWNING AND OPERATING AN AUTOMOBILE, BY SIZE OF CAR: 1984

[For basis of estimates for components of cost, see footnotes, table 1060. Estimates based on vehicle operated in Baltimore, MD area with an assumed life-span of 12 years, 120,000 miles]

ITEM	Total ¹	Taxes and fees	Costs, excl. taxes ¹	Depreciation	Repairs, maintenance	Tires	Gasoline	Insurance	Parking
Total costs (\$1,000):									
Large ²	36.8	2.6	34.2	11.6	6.2	.8	8.2	5.9	1.1
Intermediate ³	33.4	2.2	31.2	10.3	5.4	.6	6.6	6.7	1.1
Compact ⁴	28.0	1.9	26.1	8.8	4.7	.5	5.3	5.2	1.1
Subcompact ⁵	27.3	1.8	25.5	7.0	5.4	.5	5.1	5.9	1.1
Passenger van ⁶	47.1	3.3	43.8	12.8	7.0	.9	10.7	10.6	1.1
Cents per mile cost:									
Large ²	30.6	2.2	28.4	9.6	5.1	.7	6.8	4.9	.9
Intermediate ³	27.8	1.8	26.0	8.6	4.5	.5	5.5	5.6	.9
Compact ⁴	23.3	1.6	21.7	7.3	3.9	.4	4.5	4.3	.9
Subcompact ⁵	22.7	1.4	21.3	5.9	4.5	.4	4.3	4.9	.9
Passenger van ⁶	39.2	2.7	36.5	10.7	5.8	.8	8.9	8.9	.9

¹ Includes accessories and oil. ² Fully equipped 4-door sedan, price \$11,554. ³ 2-door coupe, price \$10,320. ⁴ 4-door sedan, price \$8,799. ⁵ 5-door (hatchback), price \$7,024. ⁶ Passenger van, price \$12,788.

Source: U.S. Federal Highway Administration, *Cost of Owning and Operating Automobiles and Vans*, periodic.

No. 1063. ESTIMATED COST OF OWNING AND OPERATING AN AUTOMOBILE: 1970 TO 1984

[1984 estimates based on an automobile operated from the Baltimore, MD area, costing \$11,554, large car, and \$8,799, compact car, with an assumed life-span of 12 years, 120,000 miles. Prior years based on life-span of 10 years, 100,000 miles. Similar specifications used in other years shown]

ITEM	TOTAL COST (\$1,000)				CENTS PER MILE COST, 1984 (January)						
	1970	1976	1981	1984	12- year aver- age	1st year (14,500 miles)	3d year (12,500 miles)	5th year (10,300 miles)	7th year (9,200 miles)	10th year (7,800 miles)	12th year (6,700 miles)
LARGE SIZE 4-DOOR SEDAN											
Total	11.9	17.9	32.0	36.8	30.62	38.46	31.23	38.96	36.28	21.90	19.69
Costs excluding taxes	10.5	16.3	30.2	34.2	28.48	33.01	29.60	37.34	34.37	20.25	18.04
Depreciation	3.2	4.9	9.2	11.6	9.63	19.86	12.36	9.28	7.69	3.97	2.24
Repairs and maintenance ¹	1.5	3.7	6.2	6.2	5.15	.69	3.92	12.87	13.32	2.10	.87
Replacement tires ² .....	.4	.4	.9	.8	.67	.13	.22	.94	.94	.94	.94
Accessories ³	(2)	.1	.2	.2	.17	.10	.10	.11	.23	.24	.24
Gasoline ⁴	1.7	3.2	8.6	8.2	6.85	6.85	6.85	6.85	6.85	6.85	6.85
Oil ⁴ .....	.2	.2	.2	.2	.13	.06	.13	.19	.12	.16	.08
Insurance ⁵	1.7	1.7	4.0	5.9	4.94	4.38	5.08	6.16	4.28	5.05	5.88
Garaging, parking, etc. ⁶	1.8	2.2	.9	1.1	.94	.94	.94	.94	.94	.94	.94
Taxes and fees ⁷	1.4	1.6	1.8	2.6	2.14	5.45	1.63	1.62	1.91	1.65	1.65
COMPACT CAR											
Total	(NA)	14.6	25.7	28.0	23.31	24.74	21.69	24.92	33.90	19.66	20.55
Costs excluding taxes	(NA)	13.5	24.3	26.1	21.73	20.70	20.57	23.63	32.40	18.71	19.37
Depreciation	(NA)	3.8	7.1	8.8	7.33	11.00	8.04	6.69	5.96	6.32	6.87
Repairs and maintenance ¹	(NA)	3.0	5.2	4.7	3.92	.31	2.48	5.44	16.26	1.19	.82
Replacement tires ²	(NA)	.4	.6	.5	.43	.09	.08	.55	.54	.82	.26
Accessories ³	(NA)	.1	.2	.2	.19	.12	.12	.13	.25	.26	.26
Gasoline ⁴	(NA)	2.3	6.1	5.4	4.48	4.48	4.48	4.48	4.48	4.48	4.48
Oil ⁴	(NA)	.2	.2	.2	.13	.06	.13	.19	.11	.15	.08
Insurance ⁵	(NA)	1.6	4.0	5.2	4.31	3.70	4.30	5.21	3.86	4.55	5.30
Garaging, parking, etc. ⁶	(NA)	2.1	.9	1.1	.94	.94	.94	.94	.94	.94	.94
Taxes and fees ⁷	(NA)	1.1	1.4	1.9	1.58	4.04	1.12	1.29	1.50	1.15	1.15

NA Not available. Z Less than \$50. ¹ For 1984, includes lubrications, repacking wheel bearings, flushing cooling system, aiming headlamps; replacement of minor parts such as spark plugs, fan belts, radiator hoses, fuel filter, and pollution control equipment; minor repairs such as brake work, water pump, carburetor overhaul, and universal joints; and major repairs such as transmission work and carburetor replacement. ² For 1984, covers 8 new regular tires and 2 new snow tires during life of car. ³ For 1984, includes a set of vinyl floor mats, seat covers, and a pair of extra wheels. ⁴ For 1984, gasoline use set at 17 miles per gallon for large size sedan and 26 miles per gallon for compact car; associated oil use at 1 quart oil every 2,500 miles driven between 50,000 and 75,000 miles and 1 quart every 2,000 miles driven between 75,000 and 120,000 miles. ⁵ For 1984, includes \$20,000/\$40,000 bodily injury, and \$10,000 property damage, \$2,500 personal injury protection, uninsured motorist coverage, and full comprehensive coverage for the 12-year period; \$100 deductible collision insurance was assumed for the first 5 years. ⁶ For 1984, includes parking fee average of \$85.20 per year and toll average of \$8.85 per year. Beginning 1981, excludes cost of home garage or parking facility which was included in prior years. ⁷ For 1984, Federal tax on gasoline of 9 cents per gallon; plus the Maryland tax on gasoline of 13.5 cents per gallon, titling tax of 5 percent of retail price, and registration fee of \$20.00 for 3,700 lb. or less shipping weight, or \$30.00 for vehicles over 3,700 lb. State sales tax of 5 percent included on certain items.

Source: U.S. Federal Highway Administration, *Cost of Owning and Operating Automobiles and Vans*, periodic.

NO. 1064. TRUCKS—PERCENT DISTRIBUTION, BY VEHICLE AND OPERATIONAL CHARACTERISTICS: 1967 TO 1982

[See headnote, table 1065]

CHARACTERISTIC	1967	1972	1977	1982	CHARACTERISTIC	1967	1972	1977	1982
Total	100.0	100.0	100.0	100.0	Vehicle acquisition:				
Major use:					Purchased new.....	50.3	50.5	47.6	45.7
Agriculture ¹	25.1	22.6	17.0	12.2	Purchased used.....	47.9	47.8	50.0	51.5
Construction.....	9.3	8.6	6.7	11.2	Leased ²	1.8	1.9	2.4	2.8
Manufacturing.....	2.4	2.3	1.4	1.7	Fleet size: ³ 1.....	53.3	61.9	71.6	77.8
Wholesale and retail trade.....	12.2	9.5	7.6	6.8	2 to 5.....	19.2	22.0	16.3	10.9
Personal transportation.....	33.6	41.2	54.4	56.7	6 to 19.....	8.7	8.8	6.6	5.3
All other.....	17.4	16.2	13.0	11.4	20 or more.....	7.5	7.6	5.5	6.0
Body type:					Single-unit.....	⁴ 83.4	95.4	96.8	95.7
Pickup, panel, multi-stop, or walk-in.....	70.3	73.3	84.5	86.4	Combination.....	⁴ 16.6	4.7	3.2	4.3
Platform ²	14.2	12.7	6.8	5.1	Annual miles: ⁷				
Van ³	5.5	5.9	3.4	3.2	Less than 5,000.....	⁸ 36.2	23.4	23.9	26.0
All other.....	10.0	9.1	5.5	5.3	5,000 to 9,999.....	⁸ 19.8	28.1	24.0	25.5
Vehicle size: ⁴ Light.....	73.6	74.0	85.4	89.3	10,000 to 19,999.....	30.7	33.5	37.0	35.0
Medium.....	13.6	14.3	6.0	3.5	20,000 to 29,999.....	6.9	8.4	9.2	8.4
Light-heavy.....	5.2	4.2	3.1	2.4	30,000 miles or more.....	6.4	6.8	5.9	5.0
Heavy-heavy.....	7.6	7.6	5.5	4.8	Range of operation: ⁶				
Year model:					Local.....	79.0	81.3	84.8	76.6
1 to 2 years old.....	16.5	14.8	17.1	8.9	Short-range.....	13.2	8.7	8.4	10.3
3 to 4 years old.....	18.7	18.9	17.5	16.5	Long-range ¹⁰	4.9	2.4	2.1	3.1
4 years or more.....	64.8	66.6	65.4	74.6	Off-the-road ⁵	2.9	7.6	4.7	10.0
					Fuel type: ⁶				
					Gasoline.....	86.2	87.9	96.0	94.3
					Diesel and LPG.....	10.9	4.4	3.9	5.5
					Not reported.....	2.9	7.9	-	.2

- Represents zero. ¹ Includes forestry and lumbering. ² Includes cattle/rack. ³ See footnote 3, table 1065. ⁴ See footnote 4, table 1065. ⁵ Includes not reported. ⁶ Excludes panels and pickups. ⁷ Annual miles were imputed, if not reported. ⁸ Survey data were presented for "Less than 6,000 miles" and "6,000 to 9,999 miles." ⁹ Less than 201 miles. ¹⁰ 201 miles or more.

NO. 1065. TRUCKS AND TRUCK-MILES, BY VEHICLE AND OPERATIONAL CHARACTERISTICS: 1982

[Data are based on a stratified probability sample of trucks drawn from current registrations on file with motor vehicle departments in the 50 States and DC]

ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)		ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)	
	Total	Exclud- ing pickups, panels	Total	Exclud- ing pickups, panels		Total	Exclud- ing pickups, panels	Total	Exclud- ing pickups, panels
Total	33,835	4,802	377.3	87.6	Range of operation:				
Major use:					Local.....	25,902	3,073	260.2	35.0
Agriculture ¹	4,121	1,213	39.3	9.9	Short-range ²	3,498	682	59.5	22.5
Construction.....	3,795	841	49.3	10.1	Long-range ³	1,039	358	35.3	26.4
Manufacturing.....	556	254	11.9	7.7	Off-the-road ⁴	3,396	691	22.3	3.6
Wholesale and retail trade.....	2,316	844	39.5	17.6	Products carried:				
Personal transportation.....	19,188	172	167.4	.8	Farm products.....	1,626	811	16.2	8.5
All other.....	3,858	1,480	69.8	41.6	Building materials.....	991	552	13.8	9.0
Body type:					Mixed cargoes.....	675	297	18.3	12.1
Pickup, panel, multi-stop, or walk-in.....	29,245	214	292.4	2.7	Craftsman's equipment.....	2,914	421	38.4	4.5
Platform ²	1,738	1,738	20.2	20.2	Personal transportation.....	19,202	176	167.4	.8
Van ³	1,086	1,086	37.9	37.9	All other.....	8,425	2,546	123.2	52.7
All other.....	1,763	1,763	26.8	26.8	Hazardous materials carried:				
Vehicle size: ⁴ Light.....	30,223	1,348	299.5	11.8	Less than 25 percent of time.....	461	363	16.2	14.7
Medium.....	1,195	1,053	11.3	9.5	25 to 49 percent of time.....	244	190	10.3	9.4
Light-heavy.....	796	783	7.6	7.4	50 to 74 percent of time.....	117	77	3.0	2.4
Heavy-heavy.....	1,621	1,619	58.9	58.9	75 to 100 percent of time.....	20	18	.8	.7
Year model:					Types of hazardous material: ⁵				
1 to 2 years old.....	3,024	307	57.1	12.4	Flammables or combustibles.....	361	309	13.6	12.7
3 to 4 years old.....	5,585	663	86.5	22.4	Acids, poisons, caustics, etc.....	167	148	7.6	7.4
4 years or more.....	25,225	3,832	233.7	52.7	Explosives.....	35	30	1.4	1.3
Vehicle acquisition:					Radioactive materials.....	47	30	1.9	1.6
Purchased new.....	15,448	2,292	208.3	54.1	Hazardous waste.....	24	23	1.2	1.1
Purchased used.....	17,438	2,212	152.4	24.6	All other.....	36	32	1.5	1.4
Leased ⁶	949	298	16.6	8.8	Not reported.....	9	3	.1	(2)
Fleet size: ⁷ 1.....	26,333	1,655	253.4	20.1					
2 to 5.....	3,697	1,099	43.4	12.8					
6 to 19.....	1,784	836	29.8	18.0					
20 or more.....	2,021	1,202	50.7	38.7					
Truck type:									
Single-unit.....	32,365	3,731	321.8	36.3					
Combination.....	1,449	1,071	55.5	51.3					

¹ Less than 50 million. ² Includes forestry and lumbering. ³ Includes cattle/rack. ⁴ Vans similar to panel trucks are included in panel. ⁵ Average operating weight (empty weight of the vehicle plus the average load carried). Light=10,000 lbs. or less; medium=10,001-19,500 lbs.; light-heavy=19,501-26,000 lbs.; and heavy-heavy=26,001 lbs. or more. ⁶ Includes not reported. ⁷ Less than 201 miles. ⁸ 201 miles or more. ⁹ Detail does not add to totals because items were not applicable or multiple responses were possible.

NO. 1066. PASSENGER TRANSIT INDUSTRY—SUMMARY: 1960 TO 1983

[Beginning 1970, includes Puerto Rico. Comprises all privately and publicly owned organized local passenger transportation agencies except taxicabs, suburban railroads, and sightseeing and school buses. Covers (a) local motorbus lines, (b) light rail lines, (c) heavy rail lines, and (d) trolley coach lines. Based on financial and statistical reports received by American Public Transit Association from transit systems representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1970*, series Q 238-250]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983
Operating systems	Number	1,251	1,148	1,079	947	1,018	1,027	1,044	1,035	1,036	1,036
Motorbus systems ¹	Number	1,236	1,145	1,075	941	1,014	1,023	1,040	1,030	1,031	1,031
Publicly owned systems ¹	Number	54	78	144	333	463	523	576	578	581	599
Passenger vehicles owned	Number	65,292	61,717	61,350	62,226	64,013	65,739	70,983	72,063	73,803	73,782
Motorbuses.....	Number	49,600	49,600	49,700	50,811	52,866	54,490	59,411	60,393	62,114	62,083
Electric railway cars ^{2,3}	Number	11,866	10,864	10,600	10,712	10,554	10,524	10,749	10,919	10,926	11,003
Heavy rail.....	Number	9,010	9,115	9,338	9,608	9,567	9,522	9,693	9,801	9,867	9,943
Trolley coaches.....	Number	3,828	1,453	1,050	703	593	725	823	751	763	666
Total revenue	Mil. dol	(NA)	(NA)	(NA)	3,451	4,682	5,558	6,510	7,366	8,044	8,526
Operating revenue.....	Mil. dol	1,407	1,444	1,707	2,002	2,381	2,524	2,663	2,784	3,152	3,231
Nonoperating revenue ⁴	Mil. dol	(NA)	(NA)	(NA)	41	69	124	142	261	305	273
Operating assistance.....	Mil. dol	(NA)	(NA)	(NA)	1,408	2,232	2,910	3,705	4,321	4,587	5,023
Federal.....	Mil. dol	(NA)	(NA)	(NA)	302	690	856	1,094	1,095	1,005	827
State and local.....	Mil. dol	(NA)	(NA)	(NA)	1,106	1,542	2,055	2,611	3,226	3,582	4,195
Total expense	Mil. dol	1,377	1,454	1,996	3,752	4,789	5,611	6,711	7,623	8,314	8,736
Operating expense.....	Mil. dol	(NA)	(NA)	(NA)	3,537	4,539	5,232	6,246	7,024	7,553	7,956
Transportation.....	Mil. dol	(NA)	(NA)	(NA)	1,877	2,508	2,735	3,248	3,586	3,882	3,931
Maintenance.....	Mil. dol	(NA)	(NA)	(NA)	814	1,069	1,469	1,774	1,946	2,168	2,392
Administration.....	Mil. dol	(NA)	(NA)	(NA)	846	962	1,028	1,224	1,482	1,503	1,634
Reconciling expense.....	Mil. dol	(NA)	(NA)	(NA)	215	250	380	464	597	761	780
Vehicle-miles operated ⁵	Million	2,143	2,008	1,883	1,990	2,028	2,045	2,093	2,134	2,128	2,117
Motorbus.....	Million	1,578	1,528	1,409	1,526	1,630	1,634	1,677	1,685	1,669	1,678
Electric railway ^{2,3}	Million	466	437	441	448	384	400	403	437	446	421
Heavy rail.....	Million	391	395	407	423	364	380	385	420	429	408
Passengers carried ^{5,6}	Million	9,395	8,253	7,332	6,972	7,616	8,130	8,235	7,694	7,741	7,689
Motorbus ⁶	Million	6,425	5,814	5,034	5,084	5,721	6,156	5,837	5,594	5,324	5,422
Electric railway ^{2,3} ⁶	Million	2,913	2,134	2,116	1,810	1,825	1,899	2,256	2,232	2,266	2,307
Average revenue per passenger	Cents	14.2	16.2	22.4	26.7	29.8	30.0	31.0	33.9	39.7	40.2
Employees, number (avg.).....	1,000	156	145	138	160	165	178	187	193	194	195
Payroll, employee.....	Mil. dol	857	984	1,274	2,236	2,741	3,025	3,280	3,494	3,731	3,921

NA Not available. ¹ Includes systems with combined services including motorbuses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. ² Includes light rail. ³ Beginning 1975, includes cable car and inclined plane. ⁴ Includes auxiliary income. ⁵ Includes trolley coach, not shown separately. ⁶ Data for 1960-1979 not comparable with later years.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual.

NO. 1067. FEDERAL GRANT APPROVALS FOR MASS TRANSPORTATION: 1970 TO 1983

[In millions of dollars. For years ending June 30 except, beginning 1977, ending Sept. 30. Excludes direct Congressional authorizations to States or localities (major example is Washington, DC's Metro System). Mass transportation is defined as transportation by bus, or rail or other conveyance, either publicly or privately owned which provides to the public general or special service (excluding school buses, charter and sightseeing service) on a regular and continuing basis]

TYPE OF GRANT	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total grant approvals	133	864	956	1,430	1,843	2,296	2,722	2,970	3,908	4,076	3,600	4,050
Capital grant approvals	133	864	956	1,287	1,479	1,724	2,037	2,102	2,787	2,946	2,544	3,162
Section 3 ²	133	864	870	1,197	1,092	1,250	1,400	1,225	1,655	1,925	1,635	1,641
Section 5 ²	(X)	(X)	(X)	9	26	39	50	256	431	361	298	301
Interstate and urban system ³	(X)	(X)	86	81	361	434	587	621	701	660	612	448
Operating grant approvals, Section 5 ²	(X)	(X)	(X)	143	364	572	685	868	1,121	1,130	1,056	888

X Not applicable. ¹ Includes Section 9A funding not shown separately. ² Grants allowed under Urban Mass Transportation Act of 1964 as amended. Section 3 grants are discretionary grants awarded upon application by local authorities. Section 5 grants are formula grants awarded to cities meeting certain criteria. ³ Grants under Federal Highway Act of 1973.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual. Data from U.S. Urban Mass Transportation Administration.

NO. 1069. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY, BY CARRIER: 1975 TO 1983

[See headnote, table 1069. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (—) indicates loss]

ITEM	Unit	1975	1980	1982	1983	1975	1980	1982	1983
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting	Number	368	298	274	291	330	441	554	510
Number of employees, average	1,000	379	413	361	362	94	101	98	85
Compensation of employees	Mil. dol.	5,726	9,803	9,649	9,793	1,046	1,931	2,081	1,923
Operating revenues	Mil. dol.	11,116	19,725	19,499	21,267	3,907	8,792	9,242	8,738
Intercity freight	Mil. dol.	10,611	19,480	19,284	21,024	3,717	8,339	8,807	8,388
Operating expenses	Mil. dol.	10,571	18,570	18,887	19,936	3,758	8,426	9,044	8,450
Ordinary income before taxes	Mil. dol.	432	701	536	1,286	109	230	84	204
Net income	Mil. dol.	225	—72	264	750	65	14	50	152
Total power units, intercity service	1,000	78	102	105	107	69	95	98	90
Trucks, tractors owned in operation, avg	1,000	49	73	76	76	25	33	33	32
Intercity vehicle-miles	Million	6,246	6,547	5,528	6,004	4,776	6,889	7,034	6,670
Tons of intercity revenue freight carried	Million	191	178	137	150	264	324	317	318
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting	Number	50	69	90	85	32	28	40	37
Number of employees, average	1,000	10	14	17	19	4	10	9	9
Compensation of employees	Mil. dol.	175	336	445	525	70	157	162	161
Operating revenues	Mil. dol.	453	1,272	1,548	1,769	866	1,824	1,975	2,125
Intercity freight	Mil. dol.	411	1,172	1,407	1,613	765	1,676	1,815	1,950
Operating expenses	Mil. dol.	432	1,207	1,488	1,664	849	1,781	1,938	2,080
Ordinary income before taxes	Mil. dol.	17	48	47	99	32	74	70	80
Net income	Mil. dol.	9	28	31	61	18	42	47	51
Total power units, intercity service	1,000	8	13	15	16	18	25	27	31
Trucks, tractors owned in operation, avg	1,000	5	7	8	9	(2)	1	1	1
Intercity vehicle-miles	Million	464	934	1,069	1,195	688	969	948	985
Tons of intercity revenue freight carried	Million	21	37	34	38	3	5	5	6

Z Less than 500.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 2, annual.

NO. 1069. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS: 1970 TO 1983

[Carriers subject to ICC regulations. See text, p. 586. Minus sign (—) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 69-75]

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Carriers reporting ¹	Number	71	77	78	42	43	45	48	45	50	45
Number of employees, average	1,000	34	31	32	27	26	27	31	31	30	25
Compensation of employees	Mil. dol.	317	383	446	400	412	469	599	630	646	570
Operating revenue	Mil. dol.	722	942	975	989	1,021	1,200	1,397	1,453	1,447	1,276
Passenger revenue ²	Mil. dol.	524	651	645	655	671	802	947	993	969	876
Special bus revenue and other	Mil. dol.	198	291	(NA)	314	345	398	215	202	229	180
Operating expenses	Mil. dol.	639	880	937	924	983	1,143	1,318	1,381	1,416	1,283
Net operating revenue	Mil. dol.	83	61	37	45	38	57	79	72	30	—7
Ordinary income:											
Before income taxes	Mil. dol.	88	83	49	58	57	57	107	88	35	16
After income taxes	Mil. dol.	52	56	32	40	41	57	90	61	37	26
Passenger vehicles in service ³	1,000	13.3	9.7	(NA)	8.3	8.5	8.2	8.6	8.4	8.1	7.3
Vehicle-miles, passenger	Million	871	835	(NA)	754	726	754	781	732	717	591
Revenue passengers carried	Million	174	147	(NA)	122	118	122	134	114	112	94
Expense per vehicle-mile	Dollar	.73	1.05	(NA)	1.23	1.35	1.52	1.68	1.89	1.98	2.17

NA Not available. ¹ Excludes carriers preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers. ² Includes \$4 million from Government authorities for current operations. ³ Regular route, intercity and local.

Source: U.S. Interstate Commerce Commission, 1970, *Transport Statistics in the United States*, Part 7, and 1975-1982, Part 2, annual; except 1976, *Financial and Operating Statistics, Class I Motor Carriers of Passengers*, statement No. 750, semiannual. (Discontinued in 1979.)

NO. 1070. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1970 TO 1984

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, est.
Operating companies	Number	1,000	950	1,000	1,050	1,100	1,200	1,330	1,470	1,520	2,300	3,000
Buses	1,000	22.0	20.5	20.1	20.1	20.4	21.3	21.4	21.5	22.0	23.5	25.0
Miles of highway served (Dec. 31) ¹	1,000	267	274	276	276	278	280	279	273	270	255	240
Employees (Dec. 31) ²	1,000	50	47	46	46	46	48	49	49	50	50	51
Bus miles, total	Million	1,209	1,126	1,118	1,118	1,100	1,153	1,162	1,134	1,115	1,120	1,098
Revenue passengers	Million	401	351	340	329	336	368	370	375	370	365	362
Charter and tour passengers	Million	92	145	155	160	175	185	195	205	208	210	214
Revenue passenger-miles	Billion	25.3	25.4	25.1	26.0	25.6	27.7	27.4	27.1	26.9	26.5	27.1
Operating revenue, all services	Mil. dol.	901	1,172	1,232	1,331	1,419	1,664	1,943	2,069	2,103	2,211	2,280
Operating expenses	Mil. dol.	812	1,103	1,180	1,276	1,366	1,572	1,811	1,956	2,044	2,167	2,241
Net operating revenue ³	Mil. dol.	89	69	52	55	53	92	132	113	59	44	40

¹ Includes duplication between carriers. ² Operating companies only. ³ Before income taxes.

Source: American Bus Association, Washington, DC, *Bus Facts*, annual; and *Annual Report*.

NO. 1071. RAILROADS, CLASS I—SUMMARY: 1970 TO 1984

[As of Dec. 31, or calendar year data, except as noted. Compiled from annual reports of class I railroads only, except where noted. Beginning 1983, financial data may not be comparable with earlier years due to changes in accounting systems. Minus sign (-) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 284-312, Q 330, Q 356-363, and Q 367-377.]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984
Class I line-hauling companies¹	Number	71	73	41	41	39	38	33	32	29
Employees²	1,000	588	494	491	503	480	457	397	342	344
Compensation	Mill. dol.	5,711	7,475	9,701	10,904	11,318	11,850	11,021	10,345	11,004
Average per hour	Dollars	4.14	8.39	8.43	9.22	10.21	11.14	12.26	13.29	13.84
Average per year	Dollars	10,086	15,324	20,573	22,585	24,659	26,698	29,087	32,125	34,064
Mileage:										
Railroad line owned ³	1,000	206	199	191	185	179	168	165	161	(NA)
Railroad track owned ⁴	1,000	336	324	310	300	290	278	275	270	(NA)
Equipment:										
Locomotives in service	1,000	27,086	28,210	27,400	28,097	28,396	27,808	27,073	25,838	⁵ 24,782
Average horsepower	1,000 lb.	1,926	2,121	2,140	2,188	2,302	2,326	2,341	2,364	⁵ 2,403
Cars in service:										
Passenger-train	Number	11,177	6,471	4,493	4,241	4,347	3,945	3,736	⁶ 2,610	(NA)
Freight train ⁷	1,000	1,784	1,724	1,653	1,700	1,711	1,673	1,588	1,543	1,498
Freight cars ⁸	1,000	1,454	1,358	1,227	1,217	1,168	1,111	1,039	1,007	946
Average capacity ⁹	Tons	67.1	72.9	76.9	77.7	78.5	80.5	81.6	82.4	⁵ 83.3
Aggregate capacity ⁹	Mill. tons	95.6	99.2	94.4	94.6	92.7	89.4	84.8	83.0	80.0
Box ⁸	1,000	590	475	384	380	347	314	278	271	245
Gondola and hopper ⁸	1,000	724	680	647	645	636	621	594	577	552
Other ⁸	1,000	140	204	196	192	185	176	167	159	151
Income and expenses:										
Operating revenues	Mill. dol.	11,992	16,402	21,721	25,219	28,103	30,899	27,504	26,729	⁵ 28,459
Operating expenses	Mill. dol.	11,476	15,936	21,043	23,994	26,250	28,587	26,490	24,106	⁵ 25,805
Tax accruals	Mill. dol.	1,089	1,706	2,142	2,412	2,578	3,330	21,628	3,014	⁵ 3,605
Interest on funded debt	Mill. dol.	497	623	739	789	933	1,058	1,019	939	⁵ 927
Net income	Mill. dol.	227	144	307	938	1,192	2,041	1,152	1,778	⁵ 2,659
Net railway operating income	Mill. dol.	486	351	427	837	1,312	1,381	742	1,838	⁵ 2,544
Rate of return on average net investment	Percent	1.73	1.20	1.52	2.87	4.13	3.98	2.11	4.29	⁵ 5.85
Balance sheet:										
Total property investment	Mill. dol.	38,213	40,344	38,935	40,498	43,923	46,619	47,311	62,964	(NA)
Accrued depreciation and amortization	Mill. dol.	10,027	10,605	10,141	10,227	10,706	11,622	12,051	19,480	(NA)
Net investment	Mill. dol.	28,186	29,740	28,794	30,271	33,217	34,997	35,260	43,483	(NA)
Shareholder's equity	Mill. dol.	17,323	14,942	16,175	17,796	18,960	21,253	21,349	26,461	⁵ 27,976
Net working capital	Mill. dol.	-59	66	603	585	897	1,692	1,372	1,325	⁵ 1,887
Cash dividends	Mill. dol.	421	434	503	563	610	682	1,038	1,085	⁵ 1,125
AMTRAK passenger traffic:										
Passenger revenue	Mill. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	412.6	406.8	450.3	482.7
Revenue passengers carried	1,000	(NA)	(NA)	(NA)	(NA)	(NA)	19,148	18,178	18,939	19,482
Revenue passenger miles	Mill.	(NA)	(NA)	(NA)	(NA)	(NA)	4,397	3,993	4,227	4,427
Averages:										
Revenue per passenger	Dol.	(NA)	(NA)	(NA)	(NA)	(NA)	21.25	22.38	23.78	24.80
Revenue per passenger mile	Cents	(NA)	(NA)	(NA)	(NA)	(NA)	8.384	10.188	10.653	10.905
Trip per passenger	Miles	(NA)	(NA)	(NA)	(NA)	(NA)	226.45	219.66	223.21	227.45
Freight service:										
Freight revenue	Mill. dol.	10,922	15,390	20,236	23,447	26,200	28,925	25,627	25,835	⁵ 26,478
Revenue-tons originated	Million	1,485	1,395	1,390	1,502	1,492	1,453	1,269	1,293	1,428
Tons carried one mile	Billion	765	754	858	914	919	910	798	827	922
Revenue ton-miles per mile of road	1,000	3,652	3,666	4,471	4,979	5,133	5,142	4,802	4,876	⁵ 5,578
Revenue per ton-mile	Cents	1.428	2.041	2.358	2.599	2.852	3.176	3.212	3,119	⁵ 3,090
Haul per ton, U.S. as a system	Miles	490	516	572	580	590	600	604	613	617
Accidents:⁹										
Persons killed	Number	2,255	1,560	1,646	1,429	1,417	1,284	1,119	1,073	1,247
Persons injured	Number	21,327	54,306	72,545	74,126	82,246	53,003	40,275	34,816	38,570

NA Not available. ¹ See text, p. 588 for definitions of class I and class II. ² Average mid-month count.

³ Represents the aggregate length of roadway of all line-haul railroads. Excludes yard tracks, sidings, and parallel lines.

⁴ Includes multiple main tracks, yard tracks, and sidings owned by both line-haul and switching and terminal. ⁵ Preliminary.

⁶ Excludes Long Island Railroad, which was reclassified.

⁷ Includes cars owned by all railroads, private car companies, and shippers. ⁸ Class I railroads only. ⁹ Includes highway

grade crossing casualties. 1970 not comparable with later years due to change in requirements for reporting injuries.

Source: Association of American Railroads, Washington, DC, *Yearbook of Railroad Facts, Statistics of Railroads of Class I, annual*, and *Analysis of Class I Railroads*, annual. Accident data: U.S. Federal Railroad Administration, *Accident Bulletin*, annual.

NO. 1072. RAILROADS, CLASS I LINE-HAUL—FINANCIAL SUMMARY: 1970 TO 1984

[In millions of dollars, except percent. Minus sign (—) indicates deficit. Data prior to 1978 have been restated to conform with revised Uniform System of Accounts. See also *Historical Statistics, Colonial Times to 1970*, series Q 364-366 and Q 378]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, prel.
Operating revenues.....	11,992	16,402	18,536	20,090	21,721	25,219	28,103	30,899	27,504	26,729	29,459
Freight.....	11,106	15,390	17,400	18,892	20,236	23,447	26,200	28,925	25,627	25,835	28,478
Passenger.....	420	297	327	337	356	382	438	534	573	107	101
Other.....	466	715	809	861	1,130	1,390	1,464	1,439	1,303	787	880
Operating expenses.....	11,478	15,936	17,881	19,534	21,043	23,994	26,250	28,587	26,490	24,106	25,805
Net revenue from railway operations.....	514	466	655	557	678	1,225	1,853	2,312	1,013	2,623	3,655
Total income.....	994	1,094	1,358	1,353	1,623	2,397	3,167	4,425	2,680	3,689	4,900
Income taxes on ordinary income ¹	88	59	183	60	183	99	291	45	58	44	259
Net income (ordinary).....	227	144	355	326	307	938	1,192	2,041	1,152	1,778	2,559
Net railway operating income.....	486	351	452	343	427	837	1,312	1,361	742	1,838	2,544
Rate of return (percent).....	1.73	1.20	1.80	1.24	1.52	2.87	4.13	3.98	2.11	4.29	5.85
Shareowners' equity.....	17,323	14,942	15,230	15,727	16,175	17,796	19,860	21,253	21,349	26,461	27,976
Net working capital ²	59	68	343	571	803	555	897	1,592	1,372	1,325	1,887
Cash dividends.....	421	434	444	497	503	563	610	662	1,038	1,085	1,125
Gross capital expenditures.....	1,351	1,790	1,725	2,290	2,738	3,324	3,621	2,750	1,975	2,761	4,137
Equipment.....	993	1,303	1,175	1,540	1,883	2,285	2,346	1,502	713	455	845
Roadway and structures.....	358	486	550	751	855	1,039	1,275	1,248	1,262	2,306	3,472

¹ Includes State income taxes beginning 1978. ² Represents credit. ³ Current assets minus current liabilities, including debt due within one year.

Source: Association of American Railroads, Washington, DC, *Statistics of Railroads of Class I*, annual; *Yearbook of Railroad Facts*, annual; and *Analysis of Class I Railroads*, annual.

NO. 1073. RAILROADS, CLASS I LINE-HAUL—SELECTED FREIGHT STATISTICS: 1970 TO 1984

[Excludes switching and terminal roads. See text, p. 588, for definition of class I. See *Historical Statistics, Colonial Times to 1970*, series Q 319, for train-miles per train-hour]

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Average miles of road operated.....	1,000.....	209	205	198	197	192	183	179	177	174	170	165
Freight revenue.....	Bill. dol.	10.9	15.4	17.4	18.9	20.3	23.6	26.2	28.9	25.6	25.8	28.5
Per ton-mile.....	Cents	1.43	2.04	2.20	2.29	2.37	2.59	2.83	3.18	3.21	3.20	3.09
Per ton originated.....	Dollar	7.67	11.40	12.75	13.90	14.95	16.17	18.05	20.36	20.89	20.68	20.89
Revenue freight:												
Tons originated.....	Million.....	1,485	1,395	1,370	1,395	1,390	1,502	1,492	1,453	1,269	1,293	1,429
Tons carried.....	Million.....	2,616	2,437	2,446	2,439	2,217	2,463	2,434	2,377	1,979	1,932	2,113
Revenue ton-miles.....	Billion.....	765	754	794	826	858	914	919	910	798	829	922
Average haul.....	Miles.....	292	309	324	339	371	366	377	381	403	429	436
Train miles.....	Million.....	427	402	425	428	433	436	428	408	345	346	369
Freight car miles, loaded ²	Billion.....	17.3	15.1	15.8	16.3	15.9	15.8	14.7	13.8	11.7	13.8	(NA)
Empty.....	Billion.....	12.6	12.5	12.7	12.4	11.1	11.5	12.0	11.2	9.2	10.6	(NA)
Net ton-miles per train-mile ³	Number.....	1,820	1,938	2,232	2,029	2,029	2,096	2,175	2,265	2,345	2,432	2,543
Net ton-miles per loaded car-mile ²	Number.....	44.9	51.7	59.9	53.2	55.1	57.9	63.5	67.1	68.3	61.2	(NA)
Train-miles per train-hour.....	Miles.....	20.1	20.0	20.1	19.8	19.3	17.2	18.2	19.0	21.4	20.3	21.4

NA Not available. ¹ Preliminary. ² Revenue and nonrevenue freight.

Source: 1970-1978, U.S. Interstate Commerce Commission, *Annual Report; Transport Statistics in the United States*, Part 1, annual, and related quarterly reports; *Financial and Operating Statistics, Class I Railroads*, Statement No. 100, semiannual, and unpublished data; thereafter, Association of American Railroads, Washington, DC, *Yearbook of Railroad Facts*, annual.

NO. 1074. RAILROADS, CLASS I—CARS OF REVENUE FREIGHT LOADED, 1960 TO 1984, AND BY COMMODITY GROUP, 1983 AND 1984

[In thousands. Figures are 52-week totals. Data for 1978-84 include 12 class II railroads which were class I in 1977. See text, p. 588, for definition of class I. N.e.c.=Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1983	1984		1983	1984
1960.....	30,441	554	Coal.....	5,210	5,919	Crushed stone, gravel, sand.....	503	588
1965.....	29,248	1,077	Metallic ores.....	823	850	Nonmetallic minerals, n.e.c.....	589	608
1970.....	27,160	1,450	Chemicals, allied products.....	1,199	1,272	Waste and scrap materials.....	420	483
1975.....	23,217	1,308	Grain.....	1,379	1,417	Lumber, wood products (exc. furniture), n.e.c.....	367	373
1976.....	23,457	1,506	Motor vehicles and equipment.....	867	1,010	Forwarder and shipper association traffic.....	433	386
1977.....	23,173	1,689	Pulp, paper, allied products.....	777	763	Coke.....	261	285
1978.....	23,355	1,841	Primary forest products.....	738	697	Petroleum product.....	239	248
1979.....	23,892	1,858	Food and kindred products, n.e.c.....	610	580	Farm products, exc. grain.....	107	209
1980.....	22,598	1,661	Grain mill products.....	592	548	Metals and products.....	13	11
1981.....	21,613	1,723	Metals and products.....	433	475	Stone, clay, and glass products.....	2,625	3,005
1982.....	18,498	1,920	Stone, clay, and glass products.....	531	560	All other carloads.....		
1983.....	18,615	2,348						
1984.....	20,249	2,688						

Source: Association of American Railroads, Washington, DC, *Cars of Revenue Freight Loaded*, annual.

**NO. 1075. RAILROADS, CLASS I LINE-HAUL—REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUP:
1970 TO 1984**

[Data for 1976 are omitted due to incomplete reporting. See *Historical Statistics, Colonial Times to 1970*, series Q 332, for total carloads originated]

COMMODITY GROUP	1970	1974	1975	1977	1978	1979	1980	1981	1982	1983	1984
CARLOADS (1,000)											
Total ¹	27,015	26,223	22,930	22,823	22,482	23,409	22,223	21,343	18,585	19,013	20,946
Coal.....	5,296	4,691	4,844	4,809	4,372	5,329	5,789	5,835	5,718	5,276	6,081
Farm products.....	2,374	2,124	1,873	1,571	1,589	1,721	1,866	1,637	1,566	1,642	1,757
Food and kindred products.....	2,706	2,390	2,154	2,022	1,922	1,348	1,767	1,557	1,391	1,316	1,234
Metallic ores.....	1,602	1,575	1,338	1,020	1,405	1,480	1,258	1,354	761	812	1,001
Chemicals, allied products.....	1,576	1,521	1,313	1,421	1,426	1,471	1,322	1,322	1,120	1,216	1,312
Nonmetallic minerals ²	2,204	2,203	1,695	1,725	1,650	1,592	1,474	1,272	959	1,079	1,204
Lumber and wood prod. ³	2,048	1,970	1,615	1,738	1,629	1,565	1,384	1,254	1,002	1,075	1,081
Transportation equipment.....	1,059	1,263	1,135	1,417	1,352	1,278	1,004	939	801	964	1,141
Pulp, paper, allied products.....	1,197	1,221	1,015	1,077	975	977	954	899	765	440	487
Primary metal products.....	1,486	1,105	796	814	873	913	756	760	459	516	578
Stone, clay, and glass prod.....	1,231	1,127	806	924	911	920	776	690	409	417	480
Waste and scrap materials.....	805	949	744	689	734	713	632	610	467	495	529
Petroleum and coal prod.....	699	954	787	768	704	716	596	807	467	495	529
Machinery, exc. electrical.....	200	186	156	110	104	90	77	66	43	38	40
Fabricated metal prod. ⁴	398	336	244	112	96	87	72	55	36	33	37
TONS (mil.)											
Total ¹	1,484.9	1,530.7	1,395.1	1,394.7	1,390.4	1,502.1	1,492.4	1,453.0	1,268.6	1,292.6	1,429.4
Coal.....	404.6	390.9	407.6	414.9	383.1	473.8	522.1	527.6	523.8	493.6	568.6
Farm products.....	134.2	142.2	134.4	121.9	128.7	138.5	156.1	138.9	133.5	142.2	151.1
Food and kindred products.....	110.1	107.3	100.2	98.7	95.4	93.2	91.9	82.8	77.0	75.2	72.1
Metallic ores.....	126.7	126.5	106.4	83.2	112.5	119.9	105.4	113.8	62.6	68.4	85.5
Chemicals, allied products.....	91.6	101.4	91.4	104.3	106.7	112.4	108.3	105.8	91.2	99.3	107.4
Nonmetallic minerals ²	163.3	171.0	150.6	139.6	135.0	132.3	124.8	110.0	84.7	95.5	108.2
Lumber and wood prod. ³	101.9	105.3	88.6	99.3	95.1	93.1	85.5	80.3	65.9	71.7	89.9
Transportation equipment.....	24.2	23.6	27.3	33.6	32.2	30.6	23.9	22.2	18.8	22.2	26.1
Pulp, paper, allied products.....	42.5	48.2	40.6	44.9	41.4	42.4	42.1	41.6	36.4	36.6	37.7
Primary metal products.....	62.2	70.3	51.4	55.2	60.3	63.9	52.7	53.3	32.0	32.0	36.1
Stone, clay, and glass prod.....	71.1	68.0	56.8	59.9	59.9	61.5	53.7	49.2	38.2	41.8	44.7
Waste and scrap materials.....	39.8	48.1	38.2	38.1	37.8	38.5	34.3	34.1	22.7	24.5	28.8
Petroleum and coal prod.....	36.3	53.0	45.8	46.1	44.4	43.9	38.1	39.0	31.6	33.6	35.3
Machinery, exc. electrical.....	4.6	4.2	3.6	2.7	2.5	2.3	2.0	1.7	1.2	.8	.9
Fabricated metal prod. ⁴	11.3	11.3	8.2	2.9	2.5	2.3	2.0	1.7	1.0	.8	.9
GROSS REVENUE (mil. dol.)											
Total ¹	11,388	16,378	15,899	19,394	20,785	24,283	26,938	29,590	26,504	26,710	29,866
Coal.....	1,381	1,848	2,146	2,698	2,813	3,872	4,956	5,977	6,307	5,969	6,985
Farm products.....	1,068	1,510	1,472	1,485	1,678	2,101	2,801	2,621	2,305	2,374	2,483
Food and kindred products.....	1,363	1,776	1,822	2,041	2,158	2,421	2,837	2,928	2,804	2,349	2,369
Metallic ores.....	333	494	488	447	553	621	597	723	403	460	567
Chemicals, allied products.....	1,137	1,739	1,681	2,212	2,342	2,739	2,946	3,288	2,942	3,079	3,360
Nonmetallic minerals ²	409	604	596	687	723	829	948	1,036	852	827	987
Lumber and wood prod. ³	832	1,132	1,066	1,416	1,461	1,546	1,543	1,559	1,303	1,267	1,611
Transportation equipment.....	734	1,271	1,283	1,988	2,089	2,167	1,917	2,120	1,986	2,292	2,859
Pulp, paper, allied products.....	730	1,058	977	1,212	1,260	1,445	1,652	1,848	1,717	1,671	1,762
Primary metal products.....	813	1,027	848	957	1,104	1,291	1,332	1,558	977	816	955
Stone, clay, and glass prod.....	512	705	651	822	902	1,018	1,026	1,114	888	908	1,024
Waste and scrap materials.....	232	409	359	404	432	479	513	573	418	423	468
Petroleum and coal prod.....	305	603	573	680	713	835	865	1,019	887	844	913
Machinery, exc. electrical.....	148	204	200	163	166	174	176	176	115	75	81
Fabricated metal prod. ⁴	210	267	221	121	115	117	110	105	71	52	57

¹ Includes commodity groups and small packaged freight shipments, not shown separately.

² Except fuels.

³ Except furniture.

⁴ Except ordnance, machinery, and transport.

Source: 1970-1979, U.S. Interstate Commerce Commission, *Freight Commodity Statistics—Class I Railroads in the United States*, annual; thereafter, Association of American Railroads, Washington, DC, *Freight Commodity Statistics*, annual.

NO. 1076. PRODUCER PRICE INDEXES FOR TOTAL RAILROAD FREIGHT: 1970 TO 1984

[1969 = 100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

COMMODITY	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Total railroad freight.....	108.8	149.7	169.4	186.6	199.1	213.1	243.3	284.4	327.4	351.0	355.6	371.9
Annual percent change.....	8.8	18.3	13.2	10.2	6.7	7.0	14.2	16.9	15.1	7.2	1.3	4.6
Coal.....	108.6	154.8	177.5	199.8	211.6	228.2	266.2	306.3	350.9	352.6	399.9	403.4
Farm products.....	109.3	145.3	165.0	182.7	191.3	204.9	235.9	275.6	314.7	337.1	343.0	360.3
Food and kindred products.....	108.9	146.8	168.6	185.1	195.3	210.1	239.2	283.0	326.8	352.6	356.6	373.1
Metallic ores.....	108.9	155.0	178.4	197.8	211.1	227.9	263.4	307.7	355.4	387.6	395.7	410.4
Chemicals and allied products.....	108.6	147.9	168.5	183.8	197.1	208.5	235.4	274.2	316.0	339.0	342.0	357.8
Nonmetallic minerals.....	108.0	150.5	172.4	191.7	205.5	221.2	257.8	307.3	367.8	397.0	402.6	420.9
Lumber and wood products.....	108.4	147.4	163.6	177.9	191.7	205.7	233.4	278.0	325.7	349.6	357.0	381.5
Transportation equipment.....	109.4	153.5	173.5	190.2	204.3	217.6	246.3	281.7	315.8	325.9	329.3	344.0
Pulp, paper, and allied products.....	106.9	143.5	162.7	176.1	186.5	197.9	223.7	265.0	305.9	327.3	330.5	345.1
Primary metal products.....	109.5	153.3	174.8	191.8	205.0	217.9	247.1	284.6	323.7	345.3	349.0	364.8
Stone, clay, concrete, glass, products.....	109.6	153.1	174.5	192.2	206.4	223.4	255.1	301.3	351.3	379.3	383.4	401.3

¹ Change from 1970.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

NO. 1077. RAILROAD ACCIDENT—DEATHS AND INJURIES: 1970 TO 1984

[Casualty data prior to 1975 cover only those cases where a person lost time from that person's job or other usual activity. Beginning 1975, covers cases with lost time, those requiring medical treatment beyond first aid, termination of employment, transfer to another job, loss of consciousness, and occupational illnesses. 1970, cases where death occurred more than 24 hours after the injury were classified as injuries; thereafter, they were classified as deaths. See also *Historical Statistics, Colonial Times to 1970*, series Q 365-387 and Q 400-401]

TYPE OF CASUALTY	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Persons killed, total	2,225	1,560	1,630	1,530	1,646	1,429	1,417	1,264	1,119	1,073	1,247
In highway grade crossing											
accidents ¹	1,440	978	1,114	944	1,021	834	788	697	580	542	610
Involving motor vehicles ²	1,337	765	956	822	908	704	682	593	510	466	530
Passengers on trains.....	8	8	5	4	13	6	4	4	9	4	12
Railroad employees on duty.....	155	110	100	114	122	101	97	65	78	61	59
Trespassers and other.....	2,062	1,442	1,525	1,412	1,511	1,322	1,316	1,215	1,032	1,008	1,176
Persons injured	21,327	54,306	65,331	67,867	72,545	74,126	62,246	53,003	40,275	38,816	38,570
In highway grade crossing											
accidents ¹	3,336	4,168	4,831	4,649	4,256	4,172	3,662	3,121	2,508	2,467	2,723
Involving motor vehicles ²	3,205	3,568	4,307	4,455	4,087	3,938	3,486	2,975	2,366	2,355	2,568
Passengers on trains.....	489	1,307	998	503	1,252	1,001	593	409	387	502	1,000
Railroad employees on duty.....	15,743	47,318	57,889	61,028	65,071	66,924	56,331	47,838	36,032	30,416	33,364
Trespassers and other.....	5,095	5,681	6,444	6,336	6,222	6,201	5,322	4,756	3,856	3,898	4,206

¹ Accidents at public crossings only. ² Excludes motorcycles.

Source: U.S. Federal Railroad Administration, *Accident Bulletin*, annual, and *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*, annual.

NO. 1078. PETROLEUM PIPELINE COMPANIES—CHARACTERISTICS: 1972 TO 1983

[Covers pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission from 1972 to 1976, and Federal Energy Regulatory Commission beginning 1977]

ITEM	Unit	1972	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Miles of pipeline, total.....	1,000	172.1	169.0	170.7	169.9	154.5	161.6	169.8	172.7	172.8	172.5	167.8
Gathering lines.....	1,000	42.3	40.7	40.4	37.6	34.7	36.5	36.9	36.3	38.6	35.6	31.0
Trunk lines.....	1,000	129.8	128.3	130.3	132.3	119.8	125.1	132.9	136.4	134.2	136.9	136.9
Total deliveries.....	Mil. bbl.	8,647	9,132	9,391	9,742	10,019	10,768	11,140	10,600	10,223	10,181	10,310
Crude oil.....	Mil. bbl.	5,510	5,698	5,729	5,998	6,089	6,550	6,728	6,405	6,070	5,968	6,020
Products.....	Mil. bbl.	3,337	3,434	3,662	3,746	3,930	4,218	4,412	4,195	4,153	4,213	4,289
Total trunk line traffic.....	Bil. bbl.-miles	2,687	2,632	2,892	2,918	3,895	3,723	3,577	3,405	3,554	3,442	3,328
Crude oil.....	Bil. bbl.-miles	1,520	1,456	1,551	1,639	2,267	2,031	1,946	1,948	1,813	1,938	1,876
Products.....	Bil. bbl.-miles	1,167	1,176	1,341	1,279	1,627	1,691	1,631	1,458	1,740	1,484	1,452
Carrier property value.....	Mil. dol.	6,748	8,038	10,740	13,884	16,736	17,654	18,980	19,752	21,250	21,942	22,255
Operating revenues.....	Mil. dol.	1,338	1,579	1,869	2,132	2,818	4,980	5,781	6,356	6,678	7,140	7,472
Net income.....	Mil. dol.	415	330	456	595	478	1,896	1,648	1,912	2,031	2,162	2,953

Source: PennWell Publishing Co., Houston, Texas, *Oil and Gas Journal*, November 28, 1984 and earlier issues. (Copyright.)

NO. 1079. INTERSTATE NATURAL GAS PIPELINE COMPANIES—SUMMARY: 1970 TO 1983

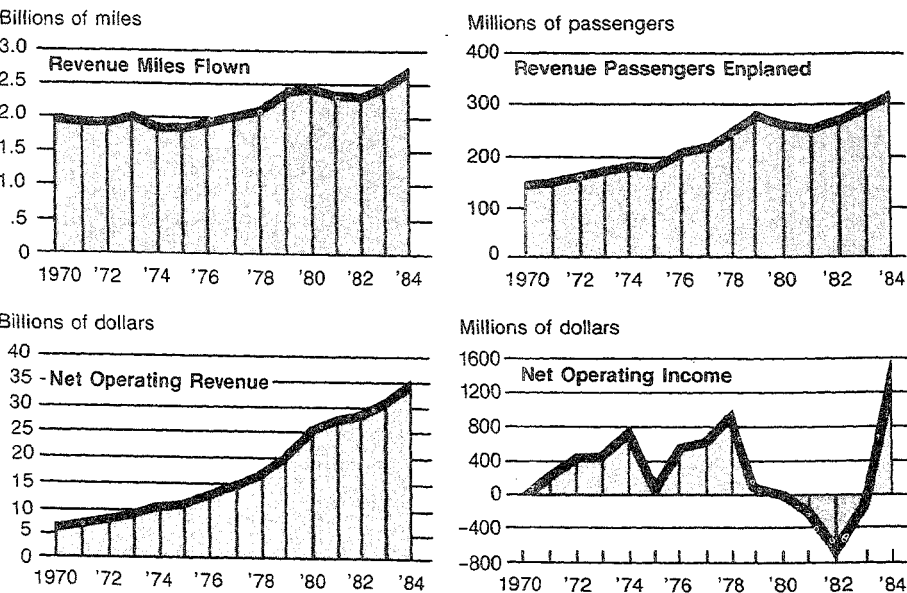
[Excludes companies whose operations are limited to production of natural gas and sales of gas at or near the point of production. Covers classes A and B interstate natural gas pipeline companies (102 in 1983) with annual gas operating revenues of \$1,000,000 or more]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983
Sales	Trit. cu. ft.	19.9	16.5	15.7	16.2	17.7	17.3	17.8	16.2	14.3
Residential.....	Trit. cu. ft.	.6	.5	.6	.6	.6	.6	.7	.7	.7
Commercial, industrial.....	Trit. cu. ft.	2.9	1.9	1.9	1.9	2.1	2.3	2.5	2.1	1.7
For resale.....	Trit. cu. ft.	16.3	14.0	13.2	13.6	14.8	14.4	14.5	13.3	11.9
Operating revenues	Mil. dol.	7,955	14,278	22,289	25,966	35,509	45,271	55,710	64,185	64,324
From sales.....	Mil. dol.	7,576	13,451	21,126	24,832	33,980	43,222	53,272	61,364	60,946
Residential.....	Mil. dol.	822	756	1,316	1,520	1,754	2,001	2,827	3,585	4,004
Commercial, industrial.....	Mil. dol.	1,025	1,646	2,842	3,272	4,527	5,950	8,189	8,210	7,579
For resale.....	Mil. dol.	5,898	11,003	16,912	19,977	27,597	35,271	42,062	49,419	49,225
From transportation of gas to others.....	Mil. dol.	188	387	559	619	772	924	1,055	1,318	1,864
Other.....	Mil. dol.	191	440	604	511	757	1,125	1,383	1,483	1,515
Operation, maintenance expenses	Mil. dol.	5,602	10,374	17,598	20,954	29,867	39,154	49,307	57,033	55,992
Production.....	Mil. dol.	4,546	8,573	15,098	19,048	26,157	34,742	43,733	50,577	49,163
Storage.....	Mil. dol.	63	140	205	254	275	303	367	448	492
Transmission.....	Mil. dol.	534	912	1,300	1,519	2,077	2,547	3,278	3,862	3,955
Distribution.....	Mil. dol.	92	122	178	193	217	245	312	334	334
Administrative, general, and other.....	Mil. dol.	368	627	817	940	1,141	1,317	1,617	1,812	1,978
Pipeline mileage:										
Transmission lines.....	1,000	182.0	187.2	189.9	190.7	193.4	192.4	186.8	201.9	196.7
Field lines.....	1,000	51.6	57.1	60.2	63.0	66.2	68.7	73.0	76.2	77.0
Storage.....	1,000	3.5	4.2	4.2	4.3	4.4	12.1	4.3	7.2	7.0

¹ Includes other ultimate customers not shown separately.

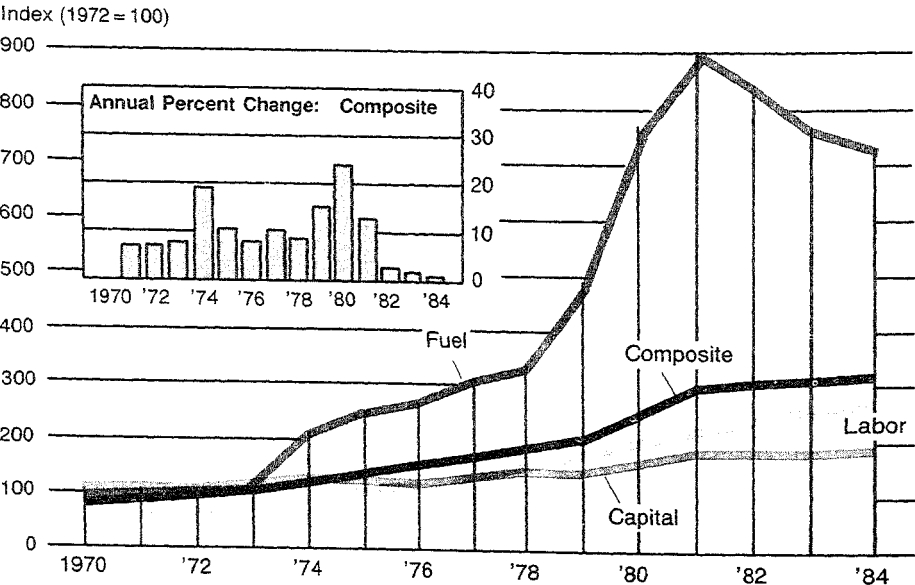
Source: 1970 and 1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual.

Figure 23.1
Domestic Scheduled Air Carriers: 1970 to 1984

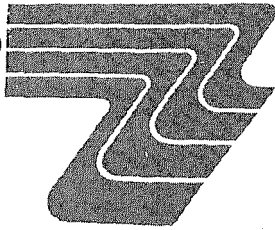


Source: Chart prepared by U.S. Bureau of Census. For data, see tables 1080 and 1081.

Figure 23.2
Airline Cost Indexes: 1970 to 1984



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1085.



Transportation— Air and Water

This section presents statistics on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. Comparative data on various types of transportation carriers are presented in section 22.

Principal sources of these data are the annual *FAA Statistical Handbook of Aviation* issued by the Federal Aviation Administration (FAA); the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army; the monthly and annual issues of *U.S. Waterborne Exports and General Imports*, and *U.S. Airborne Exports and General Imports*, the annual *Vessel Entrances and Clearances*, and the monthly *Highlights of U.S. Export and Import Trade*, issued by the Bureau of the Census. In addition, the Bureau of the Census in its commodity transportation survey (part of the census of transportation, taken every five years, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination.

Air transportation data are also presented annually by the Air Transport Association of America, Washington, DC in *Air Transport Facts and Figures*. Additional sources of data on water transportation include *A Statistical Analysis of the World's Merchant Fleets*, issued periodically by the U.S. Maritime Administration; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Completed in the World* and the *Register Book*, published by Lloyd's Register of Shipping, London, England.

Civil aviation.—Federal promotion and regulation of civil aviation have been carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promoted and regulated the civil air transportation industry within the United States and between the United States and foreign countries. The Board granted licenses to provide air transportation service, approved or disapproved proposed rates and fares, and approved or disapproved proposed agreements and corporate relationships involving air carriers. In December 1984, the CAB ceased to exist as an agency. Some of its functions were transferred to the Department of Transportation, as outlined below. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The Office of the Secretary, DOT aviation activities include: negotiation of international air transportation rights, selection of U.S. air carriers to serve capacity controlled international markets, oversight of international rates and fares, maintenance of essential air service to small communities, and consumer affairs. DOT's Research and Special Programs Administration (RSPA) handles aviation information functions formerly assigned to CAB.

The principal activities of the FAA include: The promotion of air safety; controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment; and the development of general aviation.

The CAB published monthly and quarterly financial and traffic statistical data for the certificated route air carriers. RSPA continues these publications, including both certificated and non-certificated (commuter) air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

General aviation comprises all civil flying (including such commercial operations as small demand air taxis, agriculture application, powerline patrol, etc.) but excludes certificated route air carriers, supplemental operators, large-aircraft commercial operators and commuter airlines.

Air carriers and service.—The CAB previously issued "certificates of public convenience and necessity" under Section 401 of the Federal Aviation Act of 1958 for scheduled and non-scheduled (charter) passenger services and cargo services. It also issued certificates under Section 418 of the Act to cargo air carriers for domestic all-cargo service only. The DOT Office of the Secretary now issues the certificates under a "fit, willing and able" test of air carrier operations. Carriers operating only 60 seat or less aircraft are given exemption authority to carry passengers, cargo and mail in scheduled and non-scheduled service under Part 298 of the DOT (formerly CAB) regulations. Ex-

emption authority carriers who offer scheduled passenger service to an essential air service point must meet the "fit, willing and able" test.

Vessel shipments, entrances, and clearances.—Shipments by dry cargo vessels comprise shipments on all types of watercraft, except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States, whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo are not included in the figures.

Units of measurement.—Cargo (or freight) tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. Substantially, it represents space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Deadweight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is, therefore, the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix VI.

NO. 1080. CERTIFICATED ROUTE PASSENGER/CARGO AIR CARRIERS—NUMBER, OPERATING REVENUES, AND EXPENSES: 1970 TO 1984

[In millions of dollars, except number of carriers. 1970-1979, includes scheduled and charter operations. Beginning 1980, includes all cargo carriers. Minus sign (-) indicates loss. See also headnote, table 1081, and *Historical Statistics, Colonial Times to 1970*, series Q 591-603]

ITEM	1970	1975	1977	1978	1979	1980	1981 ¹	1982 ¹	1983 ¹	1984, ¹ prel.
Number of air carriers	39	33	33	35	49	63	98	98	96	95
DOMESTIC										
Operating revenue	7,131	11,911	15,690	17,943	21,337	26,404	28,788	28,728	31,014	35,373
Passenger	6,359	10,290	13,772	15,753	18,930	23,317	25,504	25,440	27,348	31,175
Mail (including subsidy)	205	247	355	334	413	530	591	572	537	555
Express and freight	472	702	978	1,107	1,184	1,582	1,659	1,505	1,592	1,686
Other	94	672	585	749	810	974	1,034	1,211	1,549	1,957
Operating expenses	7,128	11,781	15,036	16,948	21,213	26,409	29,051	29,478	31,186	33,788
Flying operations	2,098	3,869	5,229	5,577	7,867	11,029	12,037	11,529	11,370	12,151
Maintenance	1,127	1,595	1,986	2,125	2,421	2,758	2,821	2,709	2,878	2,173
General services and administration	3,157	6,050	6,536	7,556	9,120	10,545	11,943	12,825	14,274	15,615
Depreciation and amortization	745	893	960	1,213	1,352	1,560	1,723	1,876	2,107	2,221
Transport related	(NA)	383	325	477	453	517	526	537	554	627
Net operating income	3	129	654	995	123	-6	-264	-750	-171	1,587
INTERNATIONAL										
Operating revenue	1,913	3,063	3,774	4,332	5,191	6,543	6,390	6,435	7,163	7,871
Passenger	1,553	2,435	3,019	3,494	4,226	4,984	4,916	4,959	5,361	5,782
Mail (including subsidy)	110	87	88	92	107	175	185	177	152	155
Express and freight	209	381	444	457	534	1,011	984	989	913	1,071
Other	41	150	224	288	325	372	325	309	731	890
Operating expenses	1,894	3,059	3,552	4,006	5,105	6,766	6,574	6,552	6,693	7,378
Flying operations	815	1,050	1,170	1,211	1,795	2,775	2,757	2,596	2,490	2,608
Maintenance	241	363	414	458	521	616	540	512	548	658
General services and administration	950	1,345	1,609	1,888	2,289	2,811	2,752	2,795	3,056	3,415
Depreciation and amortization	188	212	238	303	327	385	382	396	389	445
Transport related	(NA)	88	120	148	173	178	144	152	211	252
Net operating income	19	4	222	324	86	-223	-184	-17	470	493

NA Not available. ¹ Excludes carriers that report system total only (operating revenues of \$1,033 million in 1981, \$902 million in 1982, \$415 million in 1983, and \$544 million (preliminary) in 1984; operating expenditures of \$996 million, \$874 million, \$352 million, and \$497 million (preliminary) in 1981, 1982, 1983, and 1984 respectively).

Source: U.S. Federal Aviation Administration. From data supplied by U.S. Civil Aeronautics Board, *CAB Air Carrier Financial Data*, annual.

No. 1081. CERTIFICATED ROUTE AIR CARRIERS—SUMMARY: 1970 TO 1984

[As of Dec. 31 or for calendar years. See text, p. 615. Operations between continental U.S., Puerto Rico, and outlying areas included with international. See also *Historical Statistics, Colonial Times to 1970*, series Q 577-580 and Q 624-633]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984
Domestic operators ¹	Number.....	35	33	52	63	98	98	96	95
International operators ¹	Number.....	6	2						
Employment, total ²	1,000.....	297	290	341	371	350	330	329	345
Pilots, copilots, and other flight personnel	1,000.....	33	32	37	39	37	35	35	37
Flight attendants	1,000.....	34	39	53	57	55	51	56	60
Mechanics	1,000.....	48	45	45	45	46	43	40	43
Aircraft and traffic servicing personnel	1,000.....	84	83	98	122	95	88	85	101
Other	1,000.....	98	91	108	108	117	113	103	104
Fixed-wing aircraft in operation ³	Number.....	2,421	2,280	2,486	2,505	2,523	2,468	2,618	2,682
Turboprop	Number.....	2,041	2,022	2,308	2,336	2,285	2,377	2,492	2,572
Two-engine	Number.....	519	500	621	652	781	863	974	1,065
Three-engine	Number.....	831	961	1,232	1,311	1,284	1,260	1,298	1,277
Four-engine	Number.....	891	561	455	373	280	254	222	230
Turboprop	Number.....	316	193	152	163	223	88	118	110
Piston	Number.....	64	45	6	6	5	3	8	10
Average available seats: ⁴									
Domestic	Number.....	110.4	130.4	139.9	143.1	147.2	153.0	154.1	154.4
International	Number.....	154.8	224.8	259.1	274.5	279.6	283.0	283.6	289.9
Average/hr. speed: ⁵									
Domestic	Mi. per hr.....	403	403	406	405	403	408	415	415
International	Mi. per hr.....	482	482	493	494	494	483	481	495
Jet fuel consumed: ⁶									
Domestic	Mill. gal.....	7,842	7,558	9,376	9,218	8,984	8,326	8,556	9,468
International	Mill. gal.....	2,241	1,949	1,993	2,093	1,826	1,942	1,970	2,205
Revenue-miles flown ⁶									
Domestic	Millions.....	2,426	2,241	2,791	2,816	2,703	2,699	2,809	3,114
International	Millions.....	2,027	1,909	2,435	2,471	2,396	2,387	2,483	2,767
Revenue passengers enplaned ⁶									
Domestic	Millions.....	169	205	317	297	286	294	319	344
International	Millions.....	153	189	293	273	265	274	297	320
Revenue passenger-miles flown: ⁶									
Domestic	Billions.....	104.1	131.7	208.9	200.8	198.7	210.1	226.9	243.1
International	Billions.....	27.6	31.1	53.1	54.4	50.1	49.5	54.9	61.3
Average passenger-mile rate: ⁶									
Domestic	Dollars.....	.060	.077	.091	.113	.127	.121	.121	.128
International	Dollars.....	.050	.072	.077	.075	.095	.100	.098	.094
Express and freight revenue, ton-miles flown ⁶									
Domestic	Millions.....	3,515	4,796	5,964	5,742	5,686	5,482	6,092	6,552
International	Millions.....	2,216	2,747	3,466	3,277	3,350	3,039	3,385	3,553
Mail, ton-miles flown: ⁶									
Domestic	Millions.....	715	683	853	949	998	1,004	1,065	1,159
International	Millions.....	549	426	372	393	376	400	415	457
Accidents (scheduled passenger service):									
Total ⁶	Number.....	39	28	18	19	25	16	21	12
Fatal	Number.....	2	2	5	2	4	5	4	1
Fatalities	Number.....	3	122	352	14	4	235	15	4

¹ The Airline Deregulation Act of 1978 lifted some restrictions on entering new markets. As a result there is no longer a clear distinction between domestic and international operators. Includes all cargo.

² Scheduled airlines only. Source: Air Transport Association of America, Washington, DC, *Air Transport Facts and Figures*, annual.

³ Excludes those used for crew training and general utility purposes, or held for disposal. Beginning 1975, includes aircraft operated by the scheduled all-cargo certificated route air carriers.

⁴ Seats per aircraft mile. Passenger seat-miles divided by revenue-miles flown in passenger service.

⁵ Scheduled services of all certificated route air carriers; includes all cargo.

⁶ Includes all cargo. Beginning 1979 includes very small amount of gasoline.

⁷ Passenger revenues divided by revenue passenger-miles flown.

⁸ Includes mid-air collisions nonfatal to air carrier occupants (excluded in computation of fatal accidents).

Source: Except as noted, U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Includes data from U.S. Civil Aeronautics Board and U.S. National Transportation Safety Board.

NO. 1082. CERTIFICATED ROUTE AIR CARRIERS—SERVICE AND TRAFFIC: 1970 TO 1984

(In millions, except as indicated)

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984
Revenue ton-miles, all services.....	20,186	23,534	31,095	34,551	34,656	33,923	35,051	36,011	41,105
Revenue ton-miles, scheduled.....	18,166	22,186	29,679	33,390	32,603	31,949	32,849	35,756	38,615
Passenger ¹	13,171	16,281	22,678	26,202	25,519	24,889	25,963	28,183	30,446
U.S. mail.....	1,470	1,097	1,168	1,206	1,318	1,348	1,375	1,450	1,581
Foreign mail.....	10	12	14	18	24	26	29	30	35
Express.....	107	29	56	58	56	68	58	66	62
Freight.....	3,408	4,766	5,763	5,908	5,686	5,618	5,424	6,027	6,490
Revenue ton-miles, charter ²	2,020	1,348	1,416	1,151	2,053	1,974	2,201	2,255	2,491
Available ton-miles, all services.....	44,296	49,289	56,869	62,546	66,163	64,245	65,770	68,778	75,940
Ton-mile load factor (percent).....	45.6	47.7	54.7	55.2	52.4	52.8	53.3	55.3	54.1
Scheduled services total:									
Revenue passengers enplaned, scheduled.....	170	205	275	317	297	286	294	319	343
Revenue passenger-miles (bil.).....	132	163	237	262	255	249	260	282	304
Available seat-miles (bil.).....	265	303	369	416	433	425	440	465	514
Passenger load factor (percent).....	49.7	53.7	61.5	63.0	59.0	58.6	59.0	60.7	59.2
Revenue passenger-miles per gallon of fuel (number) ³	15.4	18.7	22.9	24.3	24.1	24.8	26.1	27.4	28.9
Revenue plane-miles.....	2,418	2,241	2,520	2,791	2,816	2,703	2,699	2,809	3,114

¹A passenger ton-mile represents 1 ton of passenger weight, including free and excess baggage, transported 1 mile.²Passenger and cargo. ³For major and national airlines; see headnote, table 1085.Source: Air Transport Association of America, Washington, DC, *Air Transport Facts and Figures*, annual. Data from Civil Aeronautics Board.

NO. 1083. LARGE AIR TRAFFIC HUBS—SUMMARY: 1984

(In thousands, except number of airports. For calendar year. Air traffic hubs are cities and standard metropolitan statistical areas requiring aviation services. A large hub is one which enplanes at least one percent of the total enplaned revenue passengers in all services and all operations of U.S. certificated route air carriers)

AREA OR HUB	Air-ports ¹	AIRCRAFT DEPARTURES			Revenue passengers enplaned	ENPLANED REVENUE TONS		
		Total ²	Scheduled			Total ³	Freight and express	U.S. mail
			Number	Completed				
Total, all areas	677	5,449.5	5,498.4	5,374.1	344,831.7	4,968.4	3,579.2	1,371.8
Total, 26 large hubs	40	3,227.1	3,247.9	3,182.5	238,443.7	3,200.3	2,197.8	1,000.4
Atlanta, GA.....	1	271.1	272.8	269.5	18,920.3	261.6	169.5	92.1
Boston, MA.....	1	96.5	97.4	94.9	8,702.9	130.3	99.1	30.9
Charlotte, NC.....	1	76.0	76.5	75.6	4,226.2	32.9	18.6	14.3
Chicago, IL.....	3	295.3	299.8	293.1	20,030.0	436.5	310.9	125.5
Dallas-Ft. Worth, TX.....	2	253.1	254.8	252.0	18,482.2	159.8	93.1	66.7
Denver, CO.....	1	170.8	173.5	169.7	12,812.7	108.8	63.9	44.9
Detroit/Ann Arbor, MI.....	2	99.4	96.8	94.9	5,357.2	99.9	74.7	25.2
Honolulu, HI.....	2	50.9	52.8	48.2	5,978.4	114.0	95.5	18.4
Houston, TX.....	2	139.7	141.4	139.3	9,198.6	53.6	36.7	16.9
Las Vegas, NV.....	1	59.1	58.9	58.3	4,322.8	7.2	4.3	3.0
Los Angeles/Burbank/Long Beach, CA.....	4	195.7	198.1	193.8	17,713.8	346.8	279.3	67.5
Miami/Ft. Lauderdale, FL.....	2	117.2	117.8	115.4	9,949.6	129.7	101.3	28.2
Minneapolis/St. Paul, MN.....	1	97.2	97.7	96.2	6,127.5	92.5	59.2	32.9
Newark, NJ.....	1	124.2	126.7	123.2	11,744.0	79.3	49.6	28.7
New York, NY.....	2	212.1	206.4	200.6	20,008.3	393.9	274.4	119.5
Orlando, FL.....	1	59.4	59.1	58.3	4,108.4	26.0	19.6	6.4
Philadelphia, PA/Camden, NJ.....	1	67.1	67.4	66.2	4,365.2	69.7	31.9	37.9
Phoenix, AZ.....	1	97.4	97.8	96.9	5,750.7	22.8	12.0	10.6
Pittsburgh, PA/Wheeling, WV.....	1	102.4	103.6	101.7	6,259.9	29.9	9.1	20.8
St. Louis, MO.....	1	131.1	132.4	129.7	7,946.0	76.4	33.1	43.4
Salt Lake City, UT.....	1	57.0	57.6	56.7	3,477.7	31.0	18.3	12.7
San Diego, CA.....	1	45.2	45.3	45.0	3,505.2	17.1	9.3	7.8
San Francisco/Oakland, CA.....	2	158.8	160.7	156.8	12,239.8	258.9	201.7	57.1
Seattle/Tacoma, WA.....	2	69.7	70.5	68.8	5,063.1	126.8	95.2	30.6
Tampa/St. Petersburg/Clearwater/Lake-land, FL.....	2	62.2	62.7	61.7	3,962.2	22.9	13.5	9.4
Washington, DC.....	2	118.8	119.3	116.4	8,191.1	71.9	24.0	47.8

¹ Airports serving area or hub. Airports certificated under Federal Aviation Regulation (FAR Part 139) served by scheduled and unscheduled air carriers. ² Includes completed scheduled and unscheduled. ³ Includes foreign mail, not shown separately.Source: U.S. Federal Aviation Administration, *Airport Activity Statistics*, annual.

NO. 1084. CIVIL FLYING—SUMMARY: 1970 TO 1984

[As of Dec. 31 or for years ending Dec. 31, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 604-623]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984
Airports in operation ¹	Number	11,261	13,251	14,746	15,161	15,476	15,831	16,029	16,075
Heliports	Number	780	1,524	2,108	2,336	2,507	2,712	2,918	2,980
Public	Number	4,260	4,573	4,761	4,814	4,798	4,805	4,812	4,806
Private	Number	7,001	8,678	9,985	10,347	10,678	11,026	11,217	11,269
Airports with runway flights	Number	3,554	4,171	4,631	4,738	4,795	4,844	4,878	4,889
Airports with paved runways	Number	3,805	4,865	5,618	5,833	5,826	6,223	5,441	6,529
Miles of Federal airways	1,000	324.7	403.9	408.5	411.1	415.1	366.2	364.4	364.8
Airport Improvement Program ²	Mill. dol.	50.5	339.9	624.2	639.0	442.6	407.1	721.5	733.3
Total civil aircraft	1,000	154.5	196.3	251.5	259.4	261.6	259.0	264.9	271.5
Active aircraft ³	1,000	134.5	171.2	213.9	214.8	217.2	214.0	217.5	(NA)
Air carriers, total ⁴	1,000	2.8	2.5	3.6	3.8	4.0	4.2	4.2	4.4
General aviation aircraft ⁵	1,000	131.7	168.5	210.3	211.0	213.2	209.8	213.3	(NA)
Fixed-wing aircraft	1,000	18.4	24.6	31.3	31.7	33.5	33.2	34.5	(NA)
Multi-engine	1,000	64.6	82.6	106.0	107.9	108.0	106.5	107.2	(NA)
Single-engine	1,000	44.9	54.4	62.6	60.5	59.9	57.7	59.2	(NA)
4-place and over	1,000	2.2	4.1	5.9	4.9	7.0	6.2	6.5	(NA)
3-place and less	1,000	1.6	2.8	4.8	5.0	5.0	6.2	5.9	(NA)
Rotorcraft ⁶	1,000	1.023	1,052	1,192	1,221	1,163	1,154	1,151	1,170
Balloons, blimps, gliders, etc.	1,000	733	728	815	827	784	733	718	722
Airman certificates held	Percent	4.0	5.2	6.4	6.4	6.2	6.2	6.1	6.1
Pilot ⁷	1,000	34	43	64	70	70	73	75	79
Held by women	1,000	187	189	182	183	169	165	159	155
Airline transport	1,000	304	306	343	357	329	322	319	320
Commercial	1,000	196	177	210	200	180	156	147	150
Private	1,000	290	324	377	393	398	421	433	447
Student	1,000	241	271	307	321	336	352	365	376
Nonpilot ⁸	1,000	241	271	307	321	336	352	365	376
Ground technicians ⁹	1,000	241	271	307	321	336	352	365	376
General aviation: ⁵									
Hours flown ¹⁰	Million	26.0	32.0	43.3	41.0	40.7	36.5	35.2	(NA)
Fuel consumed: ¹¹									
Gasoline	Mill. gal.	362	397	570	520	(NA)	448	428	(NA)
Jet fuel ¹²	Mill. gal.	415	510	736	766	(NA)	887	613	(NA)
Domestic air cargo, revenue	Million	2,581	3,049	3,794	3,579	3,680	3,472	3,989	4,309
ton-miles flown ¹³									
Certificated route carriers:									
Scheduled service ¹⁴	Million	2,215	2,747	3,466	3,277	3,350	3,039	3,385	3,553
Nonscheduled service ¹⁵	Million	80	39	88	¹⁶ 302	¹⁶ 310	¹⁶ 433	¹⁶ 604	¹⁶ 756
Supplemental carriers ¹⁶	Million	285	263	240	(¹⁵)	(¹⁵)	(¹⁵)	(¹⁵)	(¹⁵)
Aircraft accidents: ¹⁷									
General aviation ⁵	Number	4,712	4,001	3,825	3,597	3,502	3,230	3,091	2,991
Fatal	Number	641	636	638	622	654	589	547	529
Rate per 100,000 aircraft hours flown	Rate	(NA)	2.20	1.65	1.71	1.84	1.84	1.76	1.73
Fatalities	Number	1,310	1,258	1,237	1,252	1,282	1,182	1,046	998
Air carrier ¹⁸	Number	55	31	24	15	25	15	21	12
Fatal	Number	8	2	4	-	4	3	4	1
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	.001	.001	-	.001	.001	.001	.0003
Fatalities	Number	146	122	351	-	4	233	15	4
Commuter air carriers ¹⁹	Number	(NA)	48	52	38	31	27	17	21
Fatal	Number	(NA)	12	15	6	9	5	2	7
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	.07	.08	.04	.05	.02	.01	.02
Fatalities	Number	(NA)	26	36	37	34	14	11	45
Air taxis ²⁰	Number	(NA)	152	169	170	157	135	144	140
Fatal	Number	(NA)	24	30	45	40	31	28	22
Rate per 100,000 aircraft hours flown	Rate	(NA)	.95	.81	1.24	1.38	.95	1.09	.66
Fatalities	Number	(NA)	69	77	103	94	72	62	51
Hijacking incidents, worldwide	Number	83	25	27	40	32	31	33	25
U.S.-registered aircraft	Number	27	12	13	22	8	10	18	5
Successful ²¹	Number	18	4	6	13	2	4	13	4
Foreign-registered aircraft	Number	56	13	14	18	24	21	15	20
Successful ²¹	Number	37	3	8	9	13	12	6	16

- Represents or rounds to zero. NA Not available. ¹ Existing airports, heliports, seaplane bases, etc. recorded with FAA. Includes military airports with joint civil and military use. Includes U.S. outlying areas. Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use. ² Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970-1982 data are obligated Federal funds for the Airport Development Aid Program. 1983 and 1984 data are appropriated Federal funds under the Airport and Airway Improvement Act of 1982. ³ Registered aircraft that flew 1 or more hours during the year. ⁴ Includes helicopters.

⁵ See text p. 615. ⁶ Includes autogyros; excludes air carrier helicopters. ⁷ Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold only a helicopter, glider, or lighter than air certificate, not shown separately.

⁸ Includes dispatchers, control tower operators, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. ⁹ No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. ¹⁰ In 1980, the 41.0 million flight hours comprised 13.7 hours of business and executive flying, 11.5 hours of commercial flying (including air taxi, aerial applicator, rental aircraft), 6.7 hours of instructional flying, 8.9 hours of personal flying, and 1.0 hours of flying for other purposes. Detail does not add to total due to independent estimating technique. ¹¹ Source: 1970 and 1975, U.S. Bureau of Mines; 1979-1983 FAA General Aviation Activity and Avionics Survey.

¹² Includes kerosene-type and naphtha-type jet fuels. ¹³ Total domestic, includes freight and air express; excludes mail. ¹⁴ Includes civilian and military freight and other revenue ton-miles. ¹⁵ Civil and military. ¹⁶ Data from National Transportation Safety Board. ¹⁷ Beginning 1980, supplementals included in nonscheduled service. ¹⁸ Beginning 1975, includes all scheduled service of U.S. Air Carriers operating under 14 CFR 121. ¹⁹ Beginning 1975, includes all scheduled service of U.S. Air Carriers operating under 14 CFR 135. ²⁰ Beginning in 1975, includes all nonscheduled service of the U.S. Air Carriers operating under 14 CFR 135. ²¹ Hijacker controls flight and reaches destination or objective.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual; and unpublished data. Includes data from U.S. Civil Aeronautics Board.

NO. 1085. AIRLINE COST INDEXES: 1970 TO 1984

[Covers U.S. major and national service carriers. Major carriers have operating revenues of \$1 billion or more; nationals have operating revenues from \$75 million to \$1 billion]

ITEM	INDEX (1972=100)								PERCENT OF CASH OPERATING EXPENSES ¹			
	1970	1975	1979	1980	1981	1982	1983	1984	1970	1975	1980	1984
Composite	87.8	141.5	211.0	260.5	293.9	302.1	306.6	309.4	100.0	100.0	100.0	100.0
Labor.....	82.9	129.5	191.8	211.5	233.0	250.7	269.5	269.4	46.3	41.2	35.6	34.9
Interest ²	106.8	114.8	142.7	162.0	181.6	182.4	180.5	190.4	4.3	2.9	3.1	4.0
Fuel.....	94.2	250.8	494.9	770.8	893.1	842.6	782.8	729.2	12.7	19.1	90.3	24.1
Passenger food.....	95.1	119.8	136.5	153.0	164.9	162.9	169.4	175.4	3.9	3.4	2.9	3.2
Advertising and promotion.....	99.3	101.4	109.7	135.2	171.2	197.2	202.1	203.0	2.6	1.8	1.6	2.2
Landing fees.....	82.2	135.1	174.7	190.8	205.6	211.6	213.7	218.5	2.2	2.4	1.7	1.7
Passenger traffic commissions.....	80.4	154.0	229.2	318.6	395.7	409.4	436.6	479.9	2.9	3.8	5.3	7.6
All other.....	91.5	125.8	163.4	178.5	195.6	207.4	215.3	223.5	25.0	25.3	19.5	22.3

¹ Total operating expenses plus interest on long term debt, less depreciation and amortization. ² Interest on debt. Source: Air Transport Association of America, Washington, DC, *Air Transport*, 1984, annual; and unpublished data.

NO. 1086. COMMUTER/REGIONAL AIRLINE OPERATIONS—SUMMARY: 1975 TO 1984

[Calendar year data. Commuter/regional airlines operate primarily aircraft of predominately 60 passengers or less and 18,000 pounds payload of cargo serving short haul and small community markets. Represents operations within all North America by U.S. regional carriers]

ITEM	Unit	1975	1978	1979	1980	1981	1982	1983	1984
Carriers.....	Number.....	235	252	258	237	277	245	218	221
Aircraft in service.....	Number.....	1,073	1,200	1,350	1,806	1,743	1,857	1,808	1,915
Airports served.....	Number.....	747	702	660	605	776	817	854	853
Revenue passengers enplaned.....	1,000.....	7,243	11,026	13,972	14,810	15,420	18,600	21,800	26,100
By 50 largest carriers.....	(NA)	8,422	11,349	12,167	13,000	16,328	14,293	21,916	
Revenue passenger miles.....	Millions.....	733	1,279	1,724	1,917	2,090	2,810	3,240	4,170
Cargo pounds ¹	Millions.....	129	299	346	472	566	628	396	324

NA Not available. ¹ Beginning 1983, excludes a major jet express package carrier. Source: Regional Airline Association, Washington, DC, *Annual Report*.

NO. 1087. U.S. AIRCRAFT SHIPMENTS: 1970 TO 1985

[Value in millions of dollars]

YEAR	TOTAL		CIVIL						MILITARY	
	Units	Value	Large transports ¹		General aviation ²		Helicopters		Units	Value
			Units	Value	Units	Value	Units	Value		
1970.....	11,632	7,511	311	3,158	7,292	337	495	49	3,534	3,967
1971.....	11,161	6,593	223	2,580	7,466	322	453	69	3,019	3,622
1972.....	13,072	6,220	199	2,787	8,774	558	569	72	2,501	2,803
1973.....	16,539	8,178	274	3,873	13,646	828	768	113	1,851	3,362
1974.....	17,192	8,595	317	4,207	14,166	909	809	154	1,900	3,325
1975.....	16,918	9,355	285	4,006	14,056	1,033	838	266	1,739	4,050
1976.....	17,855	9,001	217	3,155	15,451	1,226	821	324	1,376	4,296
1977.....	19,392	9,092	159	2,672	16,904	1,488	984	352	1,345	4,580
1978.....	19,881	10,179	241	4,308	17,811	1,781	833	371	996	3,719
1979.....	19,302	15,028	376	6,030	17,048	2,165	1,041	403	837	4,430
1980.....	14,660	18,845	383	9,793	11,877	2,486	1,353	674	1,047	5,892
1981.....	11,880	20,157	388	9,731	9,457	2,820	953	636	1,062	6,870
1982.....	6,248	19,266	236	8,254	4,266	2,000	587	365	1,159	10,847
1983.....	4,394	25,232	262	8,493	2,691	1,470	401	269	1,040	15,000
1984 ³	3,620	25,352	185	6,194	2,200	1,500	300	258	935	17,400
1985 ⁴	3,793	32,103	293	10,218	2,310	1,700	320	285	870	19,900

¹ Capacity over 70 seats. ² Includes aircraft kits for exports. ³ Estimated. ⁴ Forecast.

Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook*, 1985.

NO. 1088. AEROSPACE INDUSTRY—SUMMARY: 1970 TO 1985

[For calendar year, except employment and earnings annual averages of monthly figures. Includes Standard Industrial Classification Codes 372 and 378. Industry shipments refer to the total value of all products shipped by establishments classified in that industry. Product shipments refer to the total value of specific products shipped, irrespective of how the establishments which made them are classified]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983 ¹	1984 ²	1985 ³
INDUSTRY DATA											
Value of shipments.....	Mil. dol.....	24,496	29,055	37,451	48,279	58,483	64,837	68,158	77,074	80,050	(NA)
In 1972 dollars.....	Mil. dol.....	26,255	22,207	22,276	25,992	27,899	27,523	26,684	29,200	28,228	32,524
Employment, total.....	1,000.....	791	586	586	682	721	732	707	696	714	739
Production workers.....	1,000.....	411	312	315	374	387	377	358	343	353	376
Average hourly earnings.....	Dol.....	4.12	6.53	8.33	8.91	9.90	11.19	12.24	(NA)	(NA)	(NA)
Capital expenditures.....	Mil. dol.....	475	478	948	1,550	1,923	2,005	2,216	(NA)	(NA)	(NA)
PRODUCT DATA											
Value of shipments.....	Mil. dol.....	23,327	26,834	33,629	43,663	53,296	58,968	62,167	71,324	73,165	(NA)
In 1972 dollars.....	Mil. dol.....	25,002	20,575	19,990	23,507	25,431	25,015	24,297	26,980	25,775	29,438
Shipments price index.....	1972=100.....	93.3	130.8	168.8	187.3	210.7	235.7	255.5	265.1	279.5	(NA)
TRADE DATA											
Value of imports.....	Mil. dol.....	308	747	919	1,395	3,190	4,325	4,242	3,418	4,664	5,025
Value of exports.....	Mil. dol.....	3,398	7,354	9,797	11,520	15,426	17,523	15,335	15,818	15,105	18,880

NA Not available. ¹ Estimated except for shipments price index and trade data. ² Estimated. ³ Forecast.

⁴ Estimated based on previous growth rate.

Source: U.S. Department of Commerce, International Trade Administration, *US Industrial Outlook*, 1985.

NO. 1089. AEROSPACE—SALES, NEW ORDERS, AND BACKLOG: 1970 TO 1983

[Reported by establishments in which the principal business is the development and/or production of aerospace products]

ITEM	TOTAL (bil. dol.)						PERCENT U.S. GOVERNMENT					
	1970	1975	1980	1981	1982	1983	1970	1975	1980	1981	1982	1983
Net sales.....	24.8	29.5	58.4	69.9	75.5	82.8	66.3	58.6	45.7	47.2	56.0	59.4
Complete aircraft and parts ¹	10.4	11.3	22.6	25.1	26.0	27.5	54.8	46.9	29.6	32.7	47.0	49.9
Aircraft engines and parts.....	3.1	3.4	6.9	8.5	7.6	8.8	61.5	47.0	(NA)	(NA)	(NA)	(NA)
Missiles and parts.....	5.4	6.3	8.4	9.7	12.0	12.7	96.9	93.7	(NA)	(NA)	(NA)	(NA)
Other products, services.....	5.9	8.5	20.5	26.6	29.9	34.0	(X)	(X)	(X)	(X)	(X)	(X)
Net, new orders.....	21.2	29.0	70.4	74.9	86.6	92.9	71.4	64.1	47.6	53.7	64.3	67.1
Backlog, Dec. 31.....	24.7	35.0	90.5	94.7	105.8	116.3	52.1	63.2	41.1	46.7	56.8	63.9

NA Not available. X Not applicable. ¹ Except engines sold separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MQ-37D.

NO. 1090. AEROSPACE INDUSTRY SALES, BY PRODUCT GROUP AND CUSTOMER: 1970 TO 1984

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1089]

ITEM	CURRENT DOLLARS						CONSTANT (1972) DOLLARS ¹					
	1970	1975	1980	1982	1983	1984	1970	1975	1980	1982	1983	1984
Total sales.....	25.6	29.7	54.7	67.8	80.0	83.5	27.4	23.5	26.4	26.6	28.9	27.8
PRODUCT GROUP												
Aircraft, total.....	14.1	16.4	31.5	35.5	42.4	41.9	15.1	13.0	15.2	13.9	15.3	13.9
Civil ²	4.4	6.5	16.3	11.0	12.4	10.7	4.7	5.1	7.9	4.3	4.5	3.6
Military.....	9.7	10.0	15.2	24.5	30.1	31.2	10.4	7.9	7.3	9.6	10.9	10.4
Missiles.....	4.1	3.8	6.5	10.4	10.8	11.3	4.4	3.0	3.1	4.1	3.7	3.8
Space.....	4.7	4.7	7.9	10.5	13.9	16.3	5.1	3.7	3.8	4.1	5.0	5.4
Related products and services ³	2.6	4.8	8.8	11.4	13.3	13.9	2.8	3.8	4.3	4.5	4.8	4.6
CUSTOMER GROUP												
Aerospace, total.....	22.9	24.9	45.9	56.4	66.6	69.6	24.6	19.7	22.1	22.1	24.1	23.2
DOD ⁴	14.6	13.1	22.8	34.0	41.6	48.0	15.7	10.4	11.0	13.3	15.0	15.3
NASA ⁵ and other agencies.....	3.0	2.8	4.1	4.9	5.9	6.1	3.2	2.2	2.0	1.9	2.1	2.0
Other customers ⁶	5.3	8.9	19.0	17.5	19.2	17.5	5.6	7.1	9.2	6.8	6.9	5.8
Related products and services ³	2.6	4.8	8.8	11.4	13.3	13.9	2.8	3.8	4.3	4.5	4.8	4.6

¹ Based on aerospace composite price deflator supplied by the U.S. International Trade Administration. ² All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). ³ Electronics, software, and ground support equipment, plus sales of non-aerospace products which are produced by aerospace-manufacturing establishments and which use technology, processes, and materials derived from aerospace products. ⁴ Department of Defense. ⁵ National Aeronautics and Space Administration. ⁶ Includes civil aircraft sales (see footnote 2), commercial space sales, all exports of military aircraft and missiles and related propulsion and parts.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *Aerospace Facts and Figures*, 1985/86.

No. 1091. U.S. EXPORTS OF AEROSPACE VEHICLES AND EQUIPMENT: 1980 TO 1985

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1980	1982	1983	1984 ¹	1985 ²	1980	1982	1983	1984 ¹	1985 ²
Aerospace vehicles and equipment, total	(NA)	(NA)	(NA)	(NA)	(NA)	15,681	15,611	15,065	15,400	19,200
Civil aircraft, total.....	4,434	1,557	1,088	1,037	1,126	8,378	4,848	5,691	4,461	5,985
Under 10,000 lbs. empty weight, new.....	3,150	915	497	415	400	657	380	189	145	140
10,000-33,000 lbs. empty weight, new.....	28	25	22	20	20	83	137	157	140	135
Over 33,000 lbs. empty weight, new.....	237	121	129	82	141	6,849	3,834	4,683	3,511	5,850
Rotary wing, new.....	525	254	216	220	250	299	206	232	190	205
Other new aircraft, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	5	74	122	150	175
Used, rebuilt, and converted.....	494	242	224	300	315	486	218	298	325	360
Military aircraft, total.....	502	637	936	400	450	949	2,388	1,645	1,550	1,840
Aircraft engines and parts, total.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,887	2,539	2,736	3,080	3,335
Internal combustion and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	270	264	250	300	305
Military, new and used.....	110	251	139	100	95	4	4	10	16	17
Non-military, new.....	1,848	1,378	915	984	1,000	25	25	20	18	19
Non-military, used.....	1,365	1,150	863	1,142	1,000	17	17	16	19	19
Parts, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	224	218	205	247	250
Turbines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,616	2,275	2,486	2,780	3,030
Military, new or used.....	254	394	341	375	400	59	136	163	145	150
Non-military, new and used.....	1,393	1,743	1,440	1,352	1,400	514	721	814	1,115	1,280
Parts, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	1,044	1,418	1,409	1,520	1,600
Missile engines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	29	32	52	45	50
Propellers and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	57	43	43	40	40
Landing gear and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	92	74	58	115	110
Aircraft parts and accessories, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	3,438	4,316	4,453	4,794	5,300
Guided missiles and space vehicles.....	(NA)	(NA)	(NA)	(NA)	(NA)	327	716	443	375	400
Flight simulators.....	(NA)	(NA)	(NA)	(NA)	(NA)	54	132	124	100	120
Space vehicle equipment, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	392	385	499	645	840
Avionics.....	(NA)	(NA)	(NA)	(NA)	(NA)	80	137	122	195	200

NA Not available. ¹ Estimated ² Forecast. ³ N.e.c. means not elsewhere classified.Source: U.S. Dept. of Commerce, International Trade Administration, *U.S. Industrial Outlook*, annual.

No. 1092. U.S. RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1970 TO 1984

(In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1414). Receipts include freight on exports carried by U.S.-operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (-) indicates excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals)

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
Total receipts	3,669	6,879	8,456	9,739	12,127	14,208	15,671	15,491	15,676	16,822
Ocean transportation.....	2,256	4,065	4,906	5,587	6,868	7,757	8,028	7,685	8,182	8,831
Export freight earnings.....	604	1,183	1,339	1,621	2,091	2,841	2,803	2,549	2,934	2,711
Freight earnings on shipments between foreign countries.....	209	328	395	412	480	588	561	555	575	563
Port expenditures.....	1,406	2,481	3,137	3,511	4,235	4,435	4,552	4,468	4,558	5,430
Charter hire.....	37	73	35	43	62	93	112	113	115	127
Air transportation.....	1,240	2,515	3,190	3,772	4,811	5,946	7,160	7,326	7,023	7,519
Export freight earnings.....	187	390	426	507	577	742	752	762	576	645
Passenger fares.....	541	1,039	1,366	1,603	2,156	2,591	3,111	3,174	3,037	3,023
Port expenditures.....	512	1,086	1,398	1,662	2,078	2,613	3,297	3,390	3,410	3,850
Other transportation.....	173	299	360	380	448	505	483	480	471	473
Total payments	4,058	7,971	10,720	12,019	14,090	15,397	16,961	16,482	17,808	21,174
Ocean transportation.....	2,380	4,465	6,275	7,175	8,379	8,447	8,900	8,307	8,761	10,401
Import freight payments.....	1,444	3,047	4,611	5,295	6,084	5,809	6,073	5,562	5,895	7,581
Passenger fares.....	245	278	281	252	258	268	287	290	305	305
Port expenditures.....	316	755	1,051	1,255	1,607	1,905	2,054	1,957	2,049	1,987
Charter hire.....	375	385	352	373	430	465	486	498	512	528
Air transportation.....	1,581	3,346	4,206	4,800	5,448	6,705	7,785	7,938	8,808	10,516
Import freight payments.....	115	246	362	448	506	562	671	725	1,032	1,601
Passenger fares.....	970	1,985	2,487	2,844	2,926	3,339	4,200	4,482	5,179	6,203
Port expenditures.....	456	1,115	1,357	1,508	2,016	2,804	2,914	2,731	2,597	2,712
Other transportation.....	97	160	239	244	263	245	276	237	239	257
Receipts balance	-389	-1,092	-2,264	-2,280	-1,963	-1,189	-1,290	-991	-2,132	-4,352

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June issues.

No. 1093. EXPORTS AND IMPORTS, BY METHOD OF TRANSPORT: 1960 TO 1984

[Exports are free alongside ship (f.a.s.) value (see text, p. 792) for all years; imports are f.a.s. value for 1975 and 1980 and customs value for other years. Export data include both domestic and foreign; import data for general imports only. For details, see source]

ITEM	Unit	EXPORTS						IMPORTS					
		1960	1970	1975	1980	1983	1984	1960	1970	1975	1980	1983	1984
All methods ¹	Bil. dol.	20.6	43.2	107.6	220.7	200.5	217.9	14.7	40.0	96.9	240.8	258.0	325.7
Vessel.....	Bil. dol.	13.1	24.6	63.4	120.9	103.8	102.0	11.1	24.8	63.5	165.1	156.3	193.0
Air.....	Bil. dol.	(NA)	6.1	15.2	46.1	46.7	53.4	(NA)	3.4	8.9	28.0	37.8	52.3
Shipping weight: Vessel.....	Bil. lb.	248.5	480.5	538.5	801.8	721.2	750.0	398.1	598.4	855.3	976.8	736.6	832.2
Air.....	Bil. lb.	(NA)	.9	1.4	2.3	1.9	2.2	(NA)	.6	1.1	1.3	2.3	3.1

NA Not available. ¹ Includes types other than vessel and air.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

No. 1094. WATERBORNE COMMERCE—CARGO TONNAGE: 1960 TO 1983

[In millions of short tons. Includes Puerto Rico and outlying areas. Import and export figures differ slightly from those shown in tables 1100 and 1101 due to minor differences in basic concepts. See source for details. See also *Historical Statistics, Colonial Times to 1970*, series Q 530-541]

CLASS	1960	1970	1975	1977	1978	1979	1980	1981	1982	1983
Net total	1,100	1,532	1,695	1,908	2,021	2,074	1,999	1,941	1,777	1,708
Domestic commerce ¹	761	951	946	973	1,075	1,080	1,077	1,054	957	957
Coastwise, between ports.....	209	238	232	248	305	305	330	322	311	310
Great Lakes, between ports.....	155	157	129	109	143	144	115	115	72	73
Intra: Seaports, Great Lakes ports, and inland waterways ports.....	104	81	78	83	90	93	94	93	76	83
Ports and river ports ²	292	474	507	532	538	539	539	524	498	490
Foreign commerce	339	581	749	935	946	993	922	887	820	751
Imports, through seaports.....	198	313	455	625	616	608	502	457	403	372
Imports, Great Lakes ports.....	13	26	21	33	27	25	16	20	14	16
Exports, through seaports.....	105	206	237	241	259	312	359	366	367	331
Exports, Great Lakes ports.....	23	36	35	36	44	49	45	43	36	32

¹ Includes traffic among ports of outlying areas. ² Represents traffic mainly utilizing inland waterways.

No. 1095. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1960 TO 1983

[In billions of ton-miles. Excludes Alaska and Hawaii, except as noted. Includes waterways, canals, and connecting channels]

SYSTEM	1960	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total	220.3	318.6	354.9	342.2	372.9	368.3	409.3	424.6	406.9	410.2	351.2	359.0
Atlantic coast waterways.....	28.6	28.6	35.4	31.8	32.1	30.4	30.5	31.9	30.4	28.3	25.4	22.5
Gulf coast waterways.....	16.9	26.6	33.5	30.8	34.3	37.6	37.1	38.1	36.6	35.1	31.8	32.4
Pacific coast waterways ¹	6.0	8.4	10.3	9.7	11.3	12.8	13.4	14.1	14.9	14.4	12.8	13.2
Mississippi River system ²	69.3	139.5	168.3	170.7	189.5	185.9	209.3	218.8	228.9	234.4	218.0	223.0
Great Lakes System ³	99.5	114.5	107.5	99.2	105.6	90.7	115.9	121.7	98.0	98.0	63.2	68.0

¹ Includes Alaskan waterways. ² Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers. ³ Does not include traffic between foreign ports.

Source of tables 1094 and 1095: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

No. 1096. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, UNITED STATES ARMY: 1960 TO 1984

[In millions of dollars. 1960-1975, for fiscal years ending June 30; beginning 1977, for fiscal years ending Sept. 30. These expenditures represent the work of the Corps of Engineers to plan, design, construct, operate, and maintain civil works projects and activities, particularly in the management and improvement of rivers, harbors, and waterways for navigation, flood control, and multiple purposes. The amounts listed below do not include the expenditure of funds contributed, advanced, or reimbursed by other government agencies or local interests. Includes Puerto Rico and outlying areas]

FISCAL YEAR	Total program ¹	Navi-gation	Flood control	Multi-ple pur-pose	FISCAL YEAR	Total program ¹	Navi-gation	Flood control	Multi-ple pur-pose
1960.....	873	310	293	270	1979.....	2,934	1,083	1,218	577
1965.....	1,169	426	447	283	1980.....	3,061	1,225	1,228	551
1970.....	1,128	398	379	331	1981.....	3,198	1,339	1,273	527
1975.....	2,070	694	904	439	1982.....	2,940	1,331	1,083	453
1976 ²	2,787	898	1,228	617	1983.....	2,959	1,290	1,088	482
1977.....	2,340	792	918	594	1984.....	3,085	1,383	1,154	445
1978.....	2,645	951	1,069	583					

¹ Includes expenditures which are not associated with a specific purpose (e.g., headquarters staff supervision, management, and administration activities, and some research and development activities). ² Includes the transition quarter (July-September 1976).

Source: U.S. Corps of Engineers, *Report of Civil Works Expenditures by State and Fiscal Year*, annual.

No. 1097. FREIGHT CARRIED ON MISSISSIPPI RIVER SYSTEM: 1960 TO 1983

[Net traffic. Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total	Mill. sh. tons	234	302	391	453	498	537	553	582	584	589	540	519
Inland.....	Mill. sh. tons.....	188	238	297	330	346	352	355	371	366	366	347	352
Coastwise.....	Mill. sh. tons.....	22	28	44	30	26	30	32	33	42	45	35	39
Foreign:													
Imports.....	Mill. sh. tons.....	11	13	17	46	67	96	99	106	91	80	57	32
Exports.....	Mill. sh. tons.....	13	23	34	48	60	60	67	73	86	98	101	96
Total	Bil. ton-miles	69.3	96.6	138.5	170.7	189.5	196.8	209.3	218.8	228.9	234.4	218.0	223.1
Inland.....	Bil. ton-miles.....	62.4	87.4	125.9	151.3	164.8	166.9	176.5	184.4	193.5	199.0	187.9	196.7
Coastwise.....	Bil. ton-miles.....	3.2	3.6	4.9	4.5	4.1	4.8	5.4	5.7	7.4	7.7	6.2	6.7
Foreign:													
Imports.....	Bil. ton-miles.....	1.8	2.3	2.8	8.0	11.7	16.2	16.8	17.6	15.1	13.3	8.8	5.1
Exports.....	Bil. ton-miles.....	1.9	3.3	4.9	6.9	8.8	8.8	10.1	11.1	13.0	14.4	15.1	14.6

¹ Total reflects adjustment not available by type of traffic.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

No. 1098. U.S. FREIGHT CARRIED ON GREAT LAKES SYSTEM: 1960 TO 1983

[In billions of ton-miles]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total	99.5	109.6	114.5	107.5	99.2	105.6	90.7	118.9	121.7	96.0	98.0	63.2	68.0
Domestic.....	80.6	76.7	80.1	79.7	69.2	71.3	53.0	78.8	78.5	62.3	62.7	35.9	43.5
Lakewise.....	79.7	75.9	79.4	78.9	68.5	70.7	52.4	76.3	78.0	61.7	62.1	35.4	43.0
Internal.....	.7	.7	.6	.6	.6	.5	.4	.4	.4	.5	.5	.4	.4
Local ¹.....	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Foreign.....	18.9	32.9	34.3	27.8	29.9	34.3	37.7	42.1	43.1	33.7	35.3	27.3	24.3
Canadian.....	13.8	23.5	23.8	19.4	20.7	23.7	23.1	23.1	26.9	23.6	25.8	18.2	15.9
Overseas.....	5.1	9.4	10.5	8.4	9.3	10.7	14.7	19.0	16.2	10.1	9.5	9.1	8.4

¹ Includes coastwise traffic.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.No. 1099. DOMESTIC AND FOREIGN WATERBORNE COMMERCE, BY TYPE OF COMMODITY:
1970 TO 1983

[In millions of short tons. Domestic trade includes all commercial movements between U.S. ports and on inland rivers, Great Lakes, canals, and connecting channels of U.S., Puerto Rico, and Virgin Islands. See also headnote, table 1094]

COMMODITY	1970		1975		1980		1983			
	Total	Domestic	Total	Domestic	Total	Domestic	Total	Domestic	Foreign	
									Imports	Exports
Net total	1,531.7	950.7	1,695.0	946.3	1,998.9	1,077.5	1,707.7	956.5	387.8	363.3
Petroleum products ¹	394.7	287.3	407.6	328.5	423.2	339.2	380.0	271.0	74.1	34.8
Gasoline.....	89.3	88.7	95.7	92.2	87.3	81.0	85.3	74.9	9.7	5
Distillate fuel oil.....	78.8	76.9	93.4	87.0	74.6	72.1	65.2	52.6	8.4	4.2
Residual fuel oil.....	170.5	78.8	172.1	111.5	168.0	141.3	155.6	102.5	41.9	11.2
Crude petroleum.....	210.5	116.3	333.8	77.9	480.2	174.2	368.6	187.0	181.6	-
Coal and lignite.....	225.4	154.1	219.0	152.8	256.4	164.1	229.7	155.5	1.1	73.1
Nonmetallic minerals ^{1 2}	166.6	132.6	159.2	123.3	157.1	111.6	126.1	85.5	21.1	19.5
Sand and gravel ³	78.4	73.9	72.4	67.9	65.1	60.8	53.1	49.0	3.0	1.1
Limestone.....	42.0	34.1	37.8	29.1	34.2	23.9	21.9	18.8	.6	2.5
Phosphate rock.....	16.6	5.8	20.1	9.4	23.7	9.5	17.4	5.4	-	12.0
Iron and concentrates.....	129.3	75.2	121.4	69.3	98.4	64.9	59.6	44.8	10.9	3.9
Farm products ¹	90.4	28.5	144.3	43.1	216.8	63.4	209.3	72.1	5.2	132.0
Corn.....	27.2	11.7	56.8	20.8	96.6	30.8	84.0	34.2	-	49.8
Wheat.....	25.0	5.8	44.4	10.4	59.4	14.3	57.2	15.1	-	42.1
Soybeans.....	21.2	8.3	23.2	9.4	39.6	16.1	46.0	19.3	-	26.7
Chemicals and allied products.....	62.0	39.7	66.5	40.0	91.9	49.4	91.5	47.1	18.7	25.7
Food and kindred products.....	35.0	11.0	35.5	13.3	54.8	20.4	57.2	20.9	12.3	24.0
Lumber and wood products ¹	49.9	27.3	48.2	24.7	52.0	22.7	42.0	16.2	4.3	21.5
Primary metal products.....	42.4	10.8	38.1	9.3	28.9	9.0	27.2	6.2	19.0	2.0
Waste and scrap.....	25.9	16.0	28.0	18.8	31.1	16.8	27.2	17.3	.8	9.1
Other.....	99.7	51.9	93.5	45.5	108.1	39.8	89.4	33.0	38.7	17.7

¹ Represents zero. ² Includes categories not shown separately. ³ Excludes fuels. ⁴ Includes crushed rock.⁵ Excludes furniture.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1100. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY FLAG OF CARRIER VESSEL: 1970 TO 1984

[In millions of short tons, except percent. Excludes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 524-529]

ITEM	DRY CARGO						TANKER CARGO					
	1970	1975	1980	1982	1983	1984	1970	1975	1980	1982	1983	1984
Total trade.....	358	387	497	443	445	490	181	311	392	334	283	298
Percent by U.S. flag.....	6.4	5.5	4.8	4.7	5.2	4.8	4.2	5.2	2.6	4.8	7.4	4.3
Imports, total.....	138	137	134	112	116	148	161	291	354	264	251	265
U.S. flag.....	10	10	10	9	10	10	6	13	9	14	20	11
Foreign flag.....	128	127	124	103	106	138	156	278	345	250	231	254
Exports, total.....	220	250	362	331	329	342	20	21	39	70	32	33
U.S. flag.....	13	11	14	12	13	12	2	3	1	2	1	1
Foreign flag.....	207	238	348	319	316	330	18	16	38	68	31	32

Source: U.S. Bureau of the Census, *U.S. Waterborne Exports and General Imports*, FT 985, annual; and unpublished data.

NO. 1101. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE AND VALUE, BY COASTAL DISTRICT: 1970 TO 1984

[Exports are free alongside ship (f.a.s.) value for all years; imports are f.a.s. value for 1975 and 1980 and customs value for other years see text, p. 792 Includes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III]

DISTRICT	CARGO TONNAGE (mil. sh. tons)						VALUE (bil. dol.)					
	1970	1975	1980	1982	1983	1984	1970	1975	1980	1982	1983	1984
Imports:												
Atlantic.....	219	232	183	172	171	197	15.0	34.7	71.5	72.2	75.5	92.6
Gulf.....	47	134	243	160	140	155	2.9	14.3	56.4	40.8	32.5	35.7
Pacific.....	31	64	56	38	44	47	5.5	15.2	45.0	48.2	53.9	70.6
Great Lakes.....	26	22	16	14	16	18	1.3	1.7	1.9	2.0	2.0	2.7
Exports:												
Atlantic.....	79	80	117	119	87	82	11.9	28.7	51.0	50.2	41.2	37.5
Gulf.....	78	106	163	172	164	167	6.9	21.4	41.5	41.0	36.0	37.3
Pacific.....	48	49	78	74	78	86	4.1	10.0	25.2	25.5	25.1	27.2
Great Lakes.....	36	35	45	36	32	41	1.4	2.8	4.6	3.2	2.6	3.4

Source: U.S. Bureau of the Census, *U.S. Waterborne Exports and General Imports*, FT 985, annual.

NO. 1102. CONTAINERIZED CARGO—TONNAGE AND TWENTY-FOOT EQUIVALENT UNITS (TEU's), BY SELECTED U.S. PORTS: 1982 AND 1983

[Based on reports filed for any vessel of 1,000 or more gross registered tonnage carrying 25 or more 8x8x20 foot TEU cargo container/trailer units]

PORT	LONG TONS (1,000)						TEU's (1,000)					
	Total		Import		Export		Total		Import		Export	
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
Total¹	37,330	39,922	17,390	20,614	19,940	19,308	3,946	4,147	1,952	2,274	1,994	1,873
New York.....	7,186	7,676	4,350	5,314	2,836	2,362	757	777	463	549	294	228
Los Angeles.....	3,605	4,267	1,615	2,118	1,990	2,149	404	472	211	267	193	205
Oakland.....	3,259	2,686	1,004	1,030	2,255	1,656	388	298	142	133	246	165
Seattle.....	3,195	3,687	1,485	1,725	1,710	1,962	369	426	217	250	152	176
Long Beach.....	3,088	3,871	1,798	2,557	1,290	1,314	364	450	242	327	122	123
Baltimore.....	2,454	2,719	1,038	1,363	1,416	1,356	246	265	100	129	146	136
Norfolk.....	1,714	1,503	516	541	1,198	962	178	144	51	51	127	83
Houston.....	1,705	1,582	800	744	905	838	146	126	60	59	66	67
Charleston.....	1,299	1,518	439	599	860	919	140	153	46	62	94	91
Miami.....	1,316	1,154	438	530	878	624	130	105	42	48	88	57
Savannah.....	901	1,147	394	531	507	616	107	128	52	67	55	61
San Francisco.....	1,011	840	277	252	734	588	93	81	25	24	68	57
New Orleans.....	1,024	961	469	475	555	486	92	78	37	38	55	40
San Juan.....	694	599	316	247	378	352	84	70	37	25	47	45
Philadelphia.....	874	708	655	536	219	172	75	62	51	43	24	19
Portland, Oregon.....	485	695	106	184	379	511	41	56	11	17	30	39

¹ Includes other ports, not shown separately.

Source: U.S. Maritime Administration, *Containerized Cargo Statistics*, annual.

**NO. 1103. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY
FLAG OF CARRIER VESSEL: 1961 TO 1984**

[In millions of net tons, except as indicated. Includes Puerto Rico and Virgin Islands. Seaports comprise all ports except Great Lakes ports. See also *Historical Statistics, Colonial Times to 1970*, series Q 507-517]

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS					
	Number of vessels	Tonnage, all vessels				Tonnage, all vessels			Tonnage, with cargo		
		Total	U.S.	Per- cent U.S.	Foreign	Total	U.S.	Foreign	Total	U.S.	Foreign
Entered:											
1961-1965	49,870	188	33	17.9	155	166	30	136	128	19	109
1966-1970	53,459	232	29	12.5	203	206	27	180	157	18	139
1971-1975	53,760	319	30	9.5	290	292	28	264	220	24	196
1976-1980	53,700	458	40	8.7	418	425	38	387	316	30	286
1970	53,293	254	28	10.3	226	227	24	202	171	19	152
1975	51,443	355	32	9.9	323	326	30	297	240	26	215
1980	53,645	492	52	10.6	440	460	50	410	310	34	276
1981	52,768	470	56	11.9	414	439	54	385	294	39	255
1982	47,940	438	59	13.5	379	412	57	355	255	36	219
1983	47,144	442	62	14.0	380	416	60	355	262	39	223
1984	49,239	459	53	11.5	406	429	51	378	291	33	258
Cleared:											
1961-1965	48,098	189	34	17.9	155	188	30	137	96	20	76
1966-1970	52,415	232	30	12.8	202	206	27	179	122	23	99
1971-1975	53,039	324	31	9.9	293	296	29	267	149	21	127
1976-1980	52,931	453	41	9.1	412	420	38	382	203	26	177
1970	52,195	253	27	10.5	226	226	25	201	132	20	112
1975	51,017	383	34	10.3	329	334	31	303	168	23	144
1980	52,928	487	54	11.1	433	456	51	405	246	33	213
1981	52,637	477	58	11.7	420	446	54	392	251	33	218
1982	48,409	448	60	13.4	388	421	58	363	257	35	222
1983	47,489	449	62	13.8	387	423	60	363	247	36	211
1984	49,819	468	54	11.5	414	438	51	387	250	32	216

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *Vessel Entrances and Clearances*, FT 975, annual.

**NO. 1104. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY
COASTAL DISTRICTS: 1970 TO 1984**

[In millions of net tons. Excludes domestic trade. Virgin Islands and Puerto Rico included in South Atlantic Coast, Hawaii in South Pacific Coast, Alaska in North Pacific Coast]

COASTAL DISTRICT	VESSELS ENTERED						VESSELS CLEARED					
	1970	1975	1980	1982	1983	1984	1970	1975	1980	1982	1983	1984
North Atlantic Coast	102.1	114.2	118.6	109.9	107.2	116.2	99.9	116.6	115.2	104.5	101.2	107.0
With cargo	85.4	92.3	82.1	75.5	80.7	93.4	43.7	50.6	57.8	54.5	44.6	47.1
South Atlantic Coast	36.1	48.0	65.3	59.9	60.5	63.8	31.3	46.0	60.1	57.0	58.3	62.7
With cargo	27.1	33.8	41.9	37.3	38.3	42.7	11.8	14.3	22.4	24.6	23.7	24.6
Gulf Coast	36.1	89.1	172.7	145.2	141.3	138.5	42.8	96.1	175.0	148.6	143.9	144.6
With cargo	23.0	60.8	122.8	89.9	85.7	91.5	36.8	54.2	85.0	83.9	79.8	79.1
South Pacific Coast	27.5	38.4	53.3	55.5	59.6	60.9	27.7	41.2	45.1	55.5	55.2	58.8
With cargo	21.8	32.4	36.0	33.6	38.8	41.0	20.9	24.0	31.7	47.1	45.1	44.9
North Pacific Coast	24.9	36.8	50.8	41.5	46.9	49.5	24.3	33.8	60.3	55.9	63.2	64.8
With cargo	13.6	21.1	26.6	18.9	20.7	22.1	19.0	24.5	49.0	47.5	53.8	54.7
Great Lakes	27.5	28.8	31.1	26.0	26.1	30.1	27.2	29.4	31.5	26.2	26.6	30.0
With cargo	15.2	14.0	11.3	9.6	11.5	13.5	20.2	21.2	23.7	20.7	20.0	23.1

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, FT 975, annual.

NO. 1105. DOMESTIC MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1960 TO 1984

[Vessels of 1,000 gross tons and over. See also *Historical Statistics, Colonial Times to 1970*, series Q 438-448]

ITEM	Unit	1960	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Merchant vessels	Number	26	13	15	16	17	14	15	10	12	11	13	5
Gross tons	1,000	410	342	452	615	884	912	1,149	375	275	337	376	118
Cargo	Number	15	6	3	4	2	2	4	6	2	6	6	-
Gross tons	1,000	134	120	65	57	25	27	53	105	53	221	228	-
Deadweight tons	1,000	163	134	71	78	37	30	47	114	73	219	219	-
Tankers	Number	11	7	12	12	15	12	11	4	10	5	7	5
Gross tons	1,000	276	222	387	558	859	885	1,096	270	222	116	148	118
Deadweight tons	1,000	456	427	742	1,176	1,585	1,392	1,901	354	358	226	277	210

- Represents zero

Source: 1960, American Bureau of Shipping, New York, NY, annually in *The Bulletin*; thereafter, U.S. Maritime Administration, *New Ship Construction*, annual.

No. 1106. UNITED STATES FLAG MERCHANT VESSELS—NUMBER AND TONS CARRIED: 1970 TO 1984

[Deadweight tonnage in thousands. As of June 30 except, beginning 1980, as of Sept. 30. Covers oceangoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types such as tugs, barges, cable ships, fishing trawlers, and vessels employed on Great Lakes. See also *Historical Statistics, Colonial Times to 1970*, series Q 467-502]

ITEM	CARGO ¹						TANKER					
	1970	1975	1980	1982	1983	1984	1970	1975	1980	1982	1983	1984
Number of vessels	1,479	612	553	524	517	477	301	279	310	304	302	272
Active:												
Foreign trade	354	228	195	171	141	122	32	39	32	26	43	38
Domestic trade ²	70	49	46	42	40	41	175	156	211	182	164	142
Coastwise	10	17	12	7	8	5	132	136	103	77	72	25
Noncontiguous	43	29	34	32	30	30	35	12	45	39	29	47
Special service	146	34	44	37	45	38	42	26	23	38	27	27
Inactive:												
Temporarily	41	38	31	45	60	58	22	31	24	47	58	51
Reserve fleet	868	263	237	229	231	218	30	27	20	11	10	14
Tons carried	15,445	8,175	7,872	7,597	7,991	7,876	7,835	9,433	16,107	16,511	16,746	16,089
Active:												
Foreign trade	4,699	3,901	3,826	3,426	3,108	3,108	1,076	2,303	2,793	1,715	2,419	2,324
Domestic trade ²	850	832	713	651	660	813	4,518	4,855	10,546	10,657	9,675	8,793
Coastwise	116	354	200	91	161	148	3,483	4,299	3,078	2,285	2,456	1,170
Noncontiguous	482	424	479	495	457	481	870	339	3,699	3,572	2,189	4,783
Special service	1,741	459	560	520	673	587	1,189	755	661	1,454	845	834
Inactive:												
Temporarily	472	541	451	644	931	913	691	1,173	1,806	2,492	3,608	3,823
Reserve fleet	7,684	2,442	2,322	2,356	2,446	2,455	361	347	301	193	199	315

¹ Includes combination passenger and cargo vessels, not shown separately. ² Includes intercoastal, not shown separately.

Source: U.S. Maritime Administration, *Employment Report of the United States Flag Merchant Fleet Ocean-going Vessels 1,000 Gross Tons and Over*, annual.

No. 1107. PRIVATE SHIPYARDS—SUMMARY: 1970 TO 1985

[For calendar year, unless noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 449-458 and series Q 467-472]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
Employment	1,000	133.4	166.9	174.1	171.0	177.3	178.9	166.9	143.0	142.0	140.0
Production workers	1,000	108.5	133.4	138.4	136.7	141.8	142.2	130.8	112.0	111.0	109.0
Value of work done	Mil. dol	2,682	5,615	6,943	7,739	9,269	11,001	10,979	9,883	8,944	(NA)
On ships only	Mil. dol	2,584	5,513	6,688	7,466	8,889	10,690	10,855	9,107	8,308	(NA)
Value added	Mil. dol	1,616	2,923	4,107	4,587	5,338	6,304	6,366	5,762	5,206	(NA)
Building activity:											
Merchant vessels: ²											
Under construction ³	Number	49	96	60	70	69	49	35	21	10	10
Ordered	Number	13	14	30	21	7	9	3	4	5	(NA)
Delivered	Number	13	19	19	21	23	22	17	15	5	(NA)
Cancelled	Number	-	12	1	1	4	1	-	-	-	(NA)
Under contract ⁴	Number	49	79	70	69	49	35	21	10	10	(NA)
Naval vessels: ²											
Under construction ³	Number	108	63	91	102	99	91	93	105	111	100
Ordered	Number	6	16	25	13	11	28	30	27	11	(NA)
Delivered	Number	32	3	14	16	19	26	18	21	22	(NA)
Under contract ⁴	Number	82	76	102	99	91	93	105	111	100	(NA)
Repairs/conversions:											
Commercial ships	Mil. dol	431	688	808	998	1,335	1,568	1,592	1,003	913	(NA)
Naval ships	Mil. dol	359	554	911	969	1,134	1,251	1,571	1,819	1,909	(NA)
Unfinished work: ³											
Commercial ships	Mil. dol	765	4,350	2,120	1,940	2,070	1,000	838	372	100	450
Naval ships	Mil. dol	1,719	5,424	6,332	7,338	7,107	6,760	8,025	12,200	14,003	11,754

- Represents zero. NA Not available. ¹ Estimate as of July. ² Vessels of 1,000 tons or larger. ³ As of Jan. 1.

⁴ As of Dec. 31.

Source: Shipbuilders Council of America, Washington, DC, *Annual Report*.

NO. 1108. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1960 TO 1984

[In thousands. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power or towed by other craft. Includes all full- and part-time employees]

YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards
1960.....	208	112	96	1975.....	217	154	65	1980.....	251	178	73
1970.....	216	134	83	1976.....	235	168	65	1981.....	264	187	77
1972.....	216	146	70	1977.....	242	174	68	1982.....	252	172	80
1973.....	214	149	65	1978.....	243	172	71	1983.....	227	143	84
1975.....	225	161	64	1979.....	244	173	71	1984.....	231	148	83

Source: U.S. Bureau of Labor Statistics, unpublished data. (Data for private yards published monthly in *Employment and Earnings*.)

NO. 1109. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1970 TO 1984, AND BASIC MONTHLY (JANUARY) WAGE SCALE FOR ABLEBODIED SEAMEN, 1970 TO 1985

[Employment in thousands. See also *Historical Statistics, Colonial Times to 1970*, series Q 414-416]

YEAR	Em- ploy- ment ¹	YEAR	Em- ploy- ment ¹	YEAR	East coast wage rate ²	West coast wage rate ²	YEAR	East coast wage rate ²	West coast wage rate ²
1970.....	37.6	1980.....	19.6	1970.....	\$470	\$652	1980.....	\$967	\$1,414
1975.....	20.5	1981.....	18.3	1975.....	612	900	1981.....	1,120	1,535
1977.....	20.9	1982.....	16.7	1976.....	688	1,001	1982.....	1,204	1,686
1978.....	19.9	1983.....	15.3	1977.....	737	1,072	1983.....	1,320	1,862
1979.....	19.7	1984.....	13.7	1978.....	804	1,172	1984.....	1,419	2,029
				1979.....	865	1,267	1985.....	1,419	2,029

¹ As of June 30, except beginning 1978, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. ² Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

Source: U.S. Maritime Administration, unpublished data.

NO. 1110. WORLDWIDE TANKER CASUALTIES: 1975 TO 1985

[Data for 1975-1982 covers tankers, ore/oil carriers and bulk/oil vessels of 6,000 deadweight tons and over; beginning 1983, 10,000 deadweight tons and over; excludes liquid gas carriers. Incident is counted in the year it is reported. Based on data from "Lloyd's List" published by Lloyd's of London. "Casualties" include weather damage, strandings, collisions and other contact, fires and explosions, machinery damage, and other mishaps]

ITEM	Unit	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985 ¹
Total losses ²	Number.....	22	20	20	17	26	15	21	21	11	14	5
Deaths.....	Number.....	90	226	113	148	306	132	73	72	14	68	4
Oil spills.....	Number.....	45	29	49	35	65	32	33	9	17	15	2
Amount.....	1,000 tons.....	188.0	204.2	213.1	260.5	723.5	135.6	45.3	1.8	387.8	22.4	3.0

¹ Jan.-March. ² Excludes losses due to hostilities.

Source: Tanker Advisory Center, Inc., New York, NY, "Worldwide Tanker Casualty Returns," quarterly.

NO. 1111. MERCHANT VESSELS—WORLD AND UNITED STATES: 1960 TO 1984

[Vessels of 100 gross tons and over. Excludes sailing ships, nonpropelled craft, and all ships built of wood. See also *Historical Statistics, Colonial Times to 1970*, series Q 473-480]

YEAR	WORLD: COMPLETED		WORLD: OWNED		U.S.: COMPLETED		U.S.: OWNED	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1960.....	2,005	8,382	36,311	129,770	49	379	4,059	24,837
1965.....	2,202	11,763	41,865	160,392	116	218	3,416	21,527
1970.....	2,814	20,980	52,444	227,490	156	375	2,983	18,463
1979.....	2,466	14,289	71,129	413,021	182	1,352	5,068	17,542
1980.....	2,412	13,101	73,882	419,911	205	555	5,579	18,464
1981.....	2,269	16,932	73,864	420,835	223	360	5,869	18,908
1982.....	2,312	16,820	75,151	424,742	204	216	6,133	19,111
1983.....	2,276	15,911	76,106	422,590	159	381	6,437	19,358
1984.....	2,210	18,334	76,068	418,682	73	84	6,441	19,292

Source: Lloyd's Register of Shipping, London, England, *Statistical Tables*, annual; and *Annual Summary of Merchant Ships Completed in the World*.

NO. 1112. MERCHANT VESSELS—SHIPS AND TONNAGE LOST WORLDWIDE, BY TYPE OF SHIP: 1980 TO 1983

[For merchant vessels of 100 gross tons or more. Excludes ships which have been declared constructive losses but have undergone repair during the year. Loss counted in the year the casualty is declared, as opposed to the year it is reported]

TYPE OF SHIP	SHIPS LOST					GROSS TONNAGE LOST (1,000)				
	1980	1981	1982	1983		1980	1981	1982	1983	
				Total	Percent of total				Total	Percent of total
Total	387	359	402	340	100.0	1,804	1,238	1,632	1,473	100.0
Tankers	24	22	26	18	5.3	707	293	609	487	33.1
Ore/bulk carriers ²	21	16	17	26	7.7	458	307	288	410	27.8
General cargo	211	217	212	191	56.2	478	533	610	511	34.7
Passenger ³	9	3	2	2	.6	112	17	5	5	.3
Fishing	96	65	96	71	20.9	30	19	34	21	1.4

¹ Includes types not shown separately.

² Includes ore/bulk/oil carriers.

³ Includes cargo-passenger ships.

Source: Lloyd's Register of Shipping, London, England, *Casualty Return*, annual.

NO. 1113. MERCHANT FLEETS OF THE WORLD: 1970 TO 1983

[Vessels of 1,000 gross tons and over. 1970-1975 as of Dec. 31. Beginning 1980, as of Jan. 1 of the following year. Specified countries have 100 or more ships]

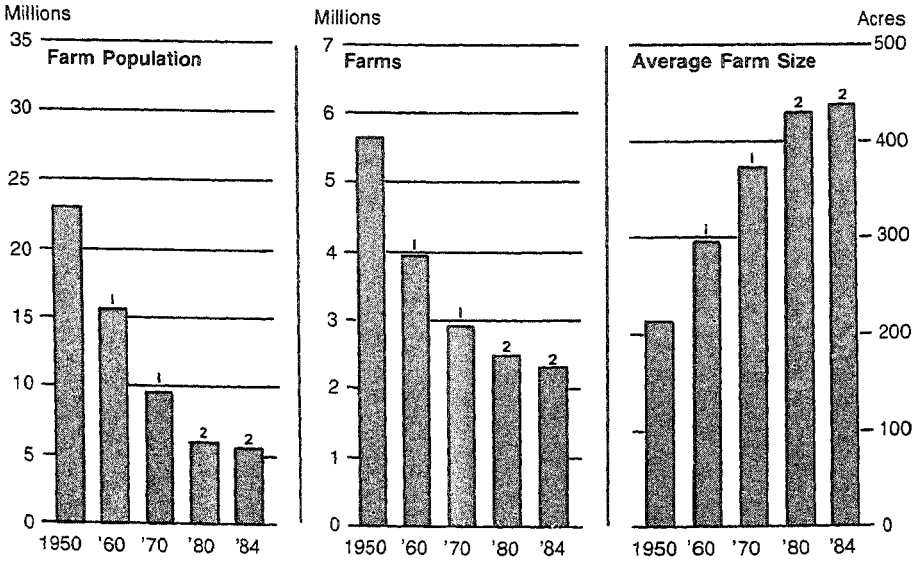
YEAR AND COUNTRY OF REGISTRY, 1983	TOTAL		PASSENGER/ CARGO COMB.		FREIGHTERS		BULK CARRIERS ¹		TANKERS	
	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)
1970, world total	19,980	13	895	21	11,899	13	2,954	8	4,232	11
United States	1,579	22	171	25	1,076	23	38	25	294	19
Foreign	18,401	12	724	20	10,823	13	2,916	8	3,938	10
1975, world total	22,872	12	714	21	12,575	13	4,272	9	5,311	11
United States	857	21	60	29	511	21	19	25	267	19
Foreign	22,015	12	654	21	12,064	13	4,253	9	5,044	11
1980, world total	24,867	13	468	24	14,242	14	4,798	10	5,359	12
United States	864	23	65	34	471	23	20	22	308	20
Foreign	24,003	13	403	22	13,771	13	4,778	10	5,051	11
1983, world total	25,579	13	379	24	14,268	14	5,384	11	5,548	12
United States	788	23	38	35	437	25	24	13	289	19
Privately owned	538	17	7	25	233	17	24	13	274	17
Government-owned	250	35	31	38	204	34	-	-	15	37
Foreign	24,791	13	341	23	13,831	14	5,360	11	5,259	12
Argentina	195	18	1	32	103	16	19	16	72	21
Brazil	344	13	4	35	192	16	78	5	72	13
British Colonies	309	11	2	21	141	14	139	8	27	14
Bulgaria	114	12	4	9	50	14	43	10	17	15
Canada	105	20	6	26	32	19	20	20	47	20
China: Mainland	861	16	10	25	599	17	138	13	114	14
Taiwan	166	12	1	12	98	13	51	12	16	13
Cyprus	480	18	3	32	356	19	63	16	58	12
Denmark	261	7	3	19	162	7	17	6	79	8
Egypt	108	17	12	27	80	14	3	10	13	26
Finland	156	10	3	8	75	11	35	8	43	10
France	314	10	5	13	161	9	49	8	99	11
German Dem. Rep.	158	12	2	29	131	12	20	17	5	9
Germany, Fed. Rep. of	437	7	5	4	314	7	30	7	88	6
Greece	2,454	16	43	31	1,110	18	920	13	381	17
India	375	13	7	18	208	14	118	12	42	9
Indonesia	317	16	10	23	237	17	13	10	57	13
Italy	601	18	14	24	223	16	123	15	231	17
Japan	1,712	7	5	10	692	7	490	8	525	6
Korea, Rep. of	419	12	-	-	258	13	170	11	73	12
Lebanon	118	23	-	-	110	23	5	20	3	26
Liberia	2,019	10	8	22	443	10	810	10	752	10
Malaysia	139	15	3	33	93	17	17	6	26	8
Malta	119	22	2	50	92	22	22	17	3	14
Netherlands	448	8	4	19	350	7	29	7	65	12
Norway	529	8	21	17	125	7	135	7	246	7
Panama	3,290	14	30	31	2,100	15	730	11	430	12
Philippines	301	16	14	22	177	17	70	10	40	21
Poland	306	12	4	19	209	13	82	11	11	8
Romania	242	8	1	45	179	8	54	8	8	9
Saudi Arabia	230	18	3	22	127	20	23	16	77	14
Singapore	556	14	4	20	364	16	85	9	103	15
Soviet Union	2,497	15	46	22	1,804	15	192	10	455	15
Spain	511	9	1	54	323	8	75	8	112	12
Sweden	216	9	4	18	119	9	22	9	71	9
Turkey	260	12	7	31	162	11	47	12	44	12
United Kingdom	685	10	10	17	250	10	136	9	287	11
Yugoslavia	263	15	4	21	197	16	52	12	10	15
All others	2,096	14	35	19	1,371	15	235	10	455	12

- Represents zero.

¹ Includes bulk/oil, ore/oil, and ore/bulk/oil carriers.

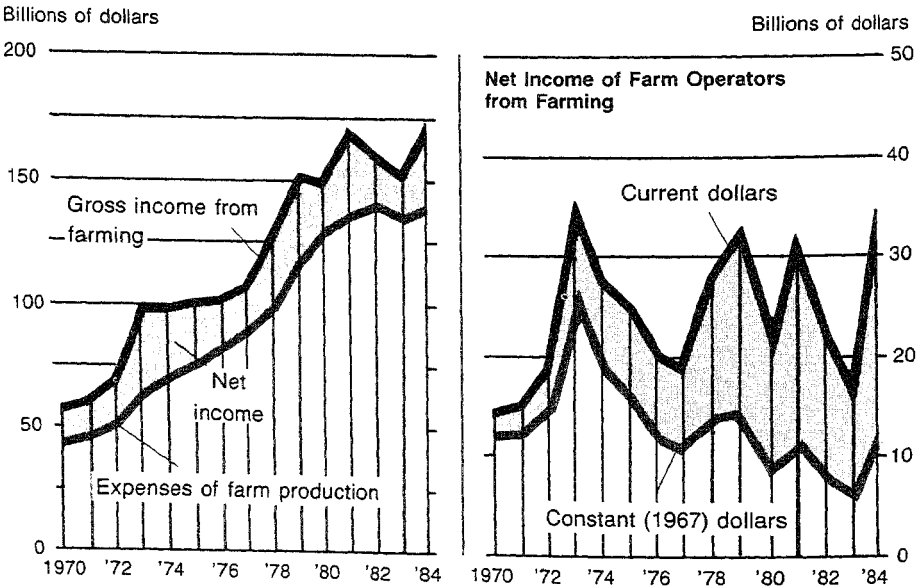
Source: U.S. Maritime Administration, *A Statistical Analysis of the World's Merchant Fleets*, annual.

Figure 24.1
Changes in Farming: 1950 to 1984



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1115 and 1120.

Figure 24.2
Farm Income and Expenses: 1970 to 1984



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1144.

Agriculture

This section presents statistics on farms and farm population; land use and irrigation; farm cooperatives; farm income, expenditures, and debt; farm output, productivity, and marketings; foreign trade in agricultural products; specific crops; and livestock, poultry, and their products.

The principal sources of these data are the reports issued by the U.S. Bureau of the Census and by the Statistical Reporting Service (SRS) and the Economic Research Service (ERS) of the U.S. Department of Agriculture. The Bureau of the Census has taken a census of agriculture every 10 years from 1840 to 1920 and every 5 years from 1925 through 1974. Two 4-year censuses, taken for 1978 and 1982, adjusted the data reference year to coincide with the economic censuses for 1982. The 1982 Census of Agriculture is the most recent census for which reports are presently available. The Department of Agriculture publishes annually *Agricultural Statistics*, a general reference book on agricultural production, supplies, consumption, facilities, costs, and returns. The Economic Research Service publishes a series of annual reports, *Economic Indicators of the Farm Sector*. This series comprises five reports: *National Financial Summary* (prior to 1985, *Income and Balance Sheet Statistics*), *State Financial Summary* (prior to 1985, *State Income and Balance Sheet Statistics*), *Production and Efficiency Statistics*, *Costs of Production*, and *Farm Sector Review*. Situation reports issued periodically by the ERS present current data on a variety of crops. Sources of current data on agricultural exports and imports include *Foreign Agricultural Trade of the United States*, published by the ERS, and the reports of the Bureau of the Census, particularly *U.S. General Imports, Schedule A, Commodity by Country*, and *U.S. Exports, Schedule B, Commodity by Country*.

Agricultural statistics have been issued by the Department of Agriculture for over 100 years. The 44 field offices of the SRS collect data on crops, livestock products, agricultural prices, farm employment, and other related subjects mainly through sample surveys. Information is obtained on some 75 crops and 50 livestock items as well as scores of items pertaining to agricultural production and marketing. State estimates and supporting information are sent to the Crop Reporting Board of SRS which reviews the estimates and issues reports containing State and national data. Among these reports are two annual summaries, *Crop Production* and *Crop Values*.

Farms and farmland.—Over time, the Bureau of the Census has used varying definitions of a farm. Data shown from the census of agriculture reflect the changes in definition since figures are presented for "farms" as defined during the years indicated. For the Census of Agriculture for 1974, 1978, and 1982, a farm was defined as any place from which \$1,000 or more of agricultural products were sold, or would have been sold during the census year. Control may have been exercised through ownership or management, or through a lease, rental, or cropping arrangement. In the case of landowners who had one or more tenants, or renters, the land operated by each was counted as a separate farm. The effect of the change in definition must be considered when comparing farms in the 1974, 1978, and 1982 censuses with those in previous censuses. In the 1969 census, as well as the 1959 and 1964 censuses, places of less than 10 acres were counted as farms if estimated sales of agricultural products for the year amounted to at least \$250, and places of 10 or more acres if such sales amounted to at least \$50. In the 1950 and 1954 censuses, places of 3 or more acres were counted as farms if the annual value of agricultural products, exclusive of homegarden products, amounted to \$150 or more; places of less than 3 acres were counted as farms only if the annual sales amounted to \$150 or more.

Unless otherwise stated in the specific tables of this section, the definition of a farm applicable to data originated by the Department of Agriculture is the one used by the Bureau of the Census for the agriculture census immediately preceding the year or years for which the data are shown.

Farmland refers to all land under the control of a farm operator, including land not actually under cultivation or not used for pasture or grazing. Rent-free land was included as part of the farm only if the operator had sole use of it. Land used for pasture or grazing on a per head basis that was neither owned nor leased by a farm operator is not included except for grazing lands controlled by grazing associations leased on a per acre basis.

State totals for 1982 are not directly comparable with totals for 1978 or earlier censuses because of changes in the procedures of collecting data. For details, see 1982 census reports. Coverage

estimates for 1982 indicate about 9.1 percent of all farms were not included in census totals. Coverage evaluation studies for the 1978 census indicated that 3.4 percent of all farms were not included in the census. Farms undercounted in the census were usually small and accounted for approximately 2 percent of the total value of agricultural products sold and approximately 2 percent of the land in farms. For more explanation about data comparability, see Appendixes A and C, *1982 Census of Agriculture*, volume I reports and *Coverage Evaluation, Volume 2, Part 2*.

Farm population.—Farm population consists of all persons living on farms in rural areas. Data prior to 1960 are based on self-identification by respondents as to whether they live on a farm, and are not based on any criterion for the definition of a farm. Except as noted, farm population data shown for 1960 to 1977 are based on the definition of a farm used for the 1969 Census of Agriculture. Farm population data for 1978 to 1983 are shown on the bases of both the 1969 and 1974 census farm definitions and are so indicated. Beginning 1984, farm population data are based only on the 1974 census farm definition.

Irrigation.—Irrigated land is defined by the Bureau of the Census as the acreage in farms to which water is artificially applied during the census year. In addition to collecting information on irrigation from individual farms in the census of agriculture, the Bureau of the Census collects data on the operation of irrigation water supply organizations at 10-year intervals. In 1978, irrigation information was collected from both individual farms and irrigation organizations.

Farm income.—Gross farm income comprises cash receipts from farm marketings of crops and livestock, Federal government payments made directly to farmers for farm-related activities, rental value of farm homes, value of farm products consumed in farm homes, and other farm-related income such as machine hire and custom work. Farm marketings represent agricultural products sold by farmers multiplied by prices received per unit of production at the local market.

Information on prices received for farm products is generally obtained by the SRS Crop Reporting Board from surveys of firms (such as grain elevators, packers, and processors) purchasing agricultural commodities directly from producers. In some cases, the price information is obtained directly from the producers. Season average prices received by farmers are calculated by weighting monthly prices by monthly sales during the crop marketing season, beginning with the first month in which a particular crop harvest begins.

Crops.—Estimates of crop acreage and production by the SRS are based on current sample survey data obtained from individual reporters and objective yield counts, reports of carlot shipments, market records, personal field observations by field statisticians, and reports from other sources. Cotton acreage and production are based on sample survey data and on ginning information gathered by the Bureau of the Census.

Price supports.—Under law, farm income from many commodities is supported through two basic Government-supported mechanisms available to producers of eligible commodities: (1) a *market price support* (loan rate) through which producers may place any portion of their production in approved storage and receive a loan at a specified rate. The farmer may repay the loan with interest and retain the commodity or, at the end of the loan period, forfeit the commodity as full payment of the loan; (2) a *farm income support* (target price) whose payments vary inversely with the market price of the specified commodity. "Deficiency payments" are made when market prices for a specified period are below the target prices. The payment rate is the difference between the target price and market price, or between the target price and loan rate, whichever is smaller.

Livestock.—Annual inventory numbers of livestock and estimates of livestock, dairy, and poultry production prepared by the Department of Agriculture are based on information from farmers and ranchers obtained by probability survey sampling methods.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability pertaining to Census Bureau and Department of Agriculture data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix VI.

**NO. 1114. FOOD AND FIBER SECTOR OF DOMESTIC ECONOMY—EMPLOYMENT AND VALUE ADDED:
1970 TO 1984**

[Employment in millions and value added in billions of dollars, except as indicated]

SECTOR	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
EMPLOYMENT										
Food and fiber sector, total	19.9	20.1	20.4	20.5	21.2	21.2	21.3	21.3	20.6	21.0
Percent of domestic economy ¹	21.2	20.9	20.6	20.1	20.2	19.8	19.6	19.3	18.4	18.5
Farm sector	2.8	2.9	3.0	2.9	2.9	2.6	2.6	2.6	2.5	2.7
Nonfarm sector	17.0	17.2	17.4	17.6	18.3	18.6	18.7	18.7	18.0	18.3
Food processing	1.4	1.5	1.5	1.5	1.5	1.6	1.5	1.6	1.5	1.5
Manufacturing	3.3	3.1	3.1	3.2	3.3	3.3	3.3	3.2	3.0	2.9
Transportation, trade, and retailing	5.6	5.7	5.8	5.9	6.2	6.4	6.5	6.5	6.3	6.5
Eating establishments	3.1	3.1	3.1	3.2	3.4	3.4	3.3	3.3	3.4	3.5
Other	3.7	3.7	3.8	3.8	4.0	4.0	4.1	4.1	3.9	4.0
VALUE ADDED ²										
Food and fiber sector, total	317.8	347.0	378.3	408.6	459.6	497.9	565.6	603.6	593.3	659.4
Percent of domestic economy	20.5	20.2	19.7	18.9	19.0	18.9	19.1	19.7	18.0	18.0
Farm sector	42.9	42.1	43.8	49.2	61.0	58.5	71.3	74.6	51.2	68.0
Nonfarm sector	274.9	304.9	334.5	359.3	398.6	439.4	494.4	529.0	542.1	591.4
Food processing	36.5	42.1	45.9	46.7	50.4	56.1	62.6	70.7	71.4	77.4
Manufacturing	55.2	59.5	65.1	69.9	76.5	81.5	91.3	95.0	95.7	102.3
Transportation, trade, and retailing	94.4	104.4	114.4	124.4	138.8	155.2	172.6	182.9	188.8	204.2
Eating establishments	25.4	27.7	30.4	33.5	36.7	39.8	42.5	46.1	50.8	53.3
Other	63.4	71.1	78.7	84.8	96.1	106.9	125.2	134.4	135.4	154.2

¹ Based on civilian labor force. ² Value added equals profits, rent, interest, wages, indirect business taxes, and depreciation.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Farm Sector Review*, annual.

NO. 1115. FARM POPULATION, 1950 TO 1984, AND FARM EMPLOYMENT, BY TYPE, 1950 TO 1985

[In thousands, except percent. For definition of farm population, see text, p. 632. See also *Historical Statistics, Colonial Times to 1970*, series C 76 and K 1-2 and K 174-176]

YEAR	FARM POPULATION ¹		YEAR	FARM POPULATION ¹		YEAR	FARM EMPLOYMENT ³					
	Total	Percent of total population ²		Total	Percent of total population ²		Total	Family mem- bers ⁴	Hired work- ers ⁵			
1950	23,048	15.3	1969 DEFINITION— Con.			1950	9,926	7,597	2,329			
1955	19,078	11.6				1955	8,381	6,345	2,036			
1956	18,712	11.2				1960	7,057	5,172	1,885			
1957	17,656	10.4				1965	5,610	4,128	1,482			
1958	17,128	9.9				1970	4,523	3,348	1,175			
1959	16,592	9.4	1976	8,253	3.8	1971	4,436	3,275	1,161			
1969 DEFINITION			1977	7,806	3.6	1972	4,378	3,228	1,146			
			1978	8,005	3.7	1973	4,337	3,169	1,168			
			1979	7,553	3.4	1974	4,389	3,075	1,314			
			1980	7,241	3.3	1975	4,342	3,025	1,317			
			1960	15,635	8.7		1981	7,014	3.1	4,374	2,997	1,377
1961	14,803	8.1	1982	6,880	3.0		4,170	2,863	1,307			
1962	14,313	7.7	1983	7,029	3.0		3,957	2,688	1,268			
1963	13,367	7.1	1974 DEFINITION			1978	3,774	2,501	1,273			
1964	12,954	6.8				1979	3,705	2,402	1,303			
1965						1980	3,330	2,236	1,094			
						1981	4,043	2,494	1,549			
						1982	3,749	2,271	1,478			
						1984	3,750	2,315	1,435			
						1985	3,570	2,197	1,373			
1966	12,363	6.4	1974 DEFINITION			1979	3,774	2,501	1,273			
1967	11,595	5.9				1980	3,705	2,402	1,303			
1968	10,875	5.5				1981	3,330	2,236	1,094			
1969	10,307	5.1				1982	4,043	2,494	1,549			
1970	9,712	4.8				1983	3,749	2,271	1,478			
1971	9,425	4.6	1982	5,628	2.4	1984	3,750	2,315	1,435			
1972	9,610	4.6	1983	5,787	2.5	1985	3,570	2,197	1,373			
			1984	5,754	2.4							

¹ As of April 1 for 1950-1959; April-centered five-quarter averages for 1960 to 1983; annual average for 1984. Prior to 1959, excludes Alaska, and 1960, Hawaii.

² Includes Armed Forces abroad. ³ Prior to 1974, averages of monthly estimates of employed during last full calendar week ending at least one day before end of month; 1974-1980 annual quarterly averages; 1981, average based on employment data from Jan. and April quarterly surveys; 1982-1985, based on July survey. ⁴ Includes farm operators doing 1 or more hours of farm work and unpaid family members doing 15 or more hours of farm work during survey week. ⁵ Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Farm Population Estimates, 1910-70* and *Farm Labor*, quarterly through April 1981, and annual beginning July 1982. Population data also published by U.S. Bureau of the Census in *Current Population Reports*, series P-27, No. 58, and earlier reports.

No. 1116. FARM POPULATION, BY CHARACTERISTICS: 1960 TO 1984

[1960, as of April; 1970 and 1980, April-centered five-quarter averages; 1984, annual averages. For definition of farm population, see text, p. 632]

CHARACTERISTIC	FARM POPULATION (1,000)							PERCENT DISTRIBUTION			
	1969 definition				1974 definition			1969 definition		1974 definition	
	1960	1970	1980	1980	1984			1960	1970	1980	1984
					Total	Male	Female				
Total.....	15,669	9,712	7,241	6,051	5,754	2,975	2,779	100.0	100.0	100.0	100.0
White.....	13,092	8,775	6,828	5,714	5,538	2,867	2,671	83.6	90.4	94.4	98.2
Black and other races.....	2,577	938	413	337	216	108	108	16.4	9.7	5.6	3.8
Under 14 years.....	4,995	2,490	1,391	1,146	1,109	565	544	31.9	25.6	18.9	19.3
14 years and over.....	10,674	7,222	5,851	4,905	4,645	2,410	2,235	68.1	74.4	81.1	80.7
14-19 years.....	1,868	1,316	926	790	627	330	296	11.9	13.6	13.1	10.9
20-24 years.....	763	502	502	444	426	243	183	4.9	5.2	7.3	7.4
25-34 years.....	1,461	770	735	606	679	359	319	9.3	7.9	10.0	11.8
35-44 years.....	1,803	1,061	862	712	717	363	354	11.5	10.9	11.8	12.5
45-64 years.....	3,453	2,452	1,892	1,607	1,433	721	711	22.0	25.2	26.6	24.9
65 years and over.....	1,326	1,122	934	746	765	393	372	8.5	11.6	12.3	13.3
In labor force ¹	6,266	4,293	3,682	3,139	2,992	1,922	1,070	58.7	59.4	64.0	64.4
Employed, agriculture.....	4,025	2,933	1,722	1,642	1,464	1,163	301	37.7	32.3	33.5	31.5
Percent of labor force.....	64.2	54.3	46.8	52.3	48.9	80.5	28.1	(x)	(x)	(x)	(x)
Self-employed.....	2,405	1,411	1,083	1,034	931	803	128	22.5	19.5	21.1	20.0
Wage and salary workers.....	782	395	344	326	350	295	55	7.3	5.5	6.8	7.5
Unpaid family workers.....	838	526	295	282	183	65	118	7.9	7.3	5.7	3.9
Employed, nonagriculture.....	2,084	1,878	1,853	1,415	1,437	715	723	19.3	26.0	28.8	28.9
Self-employed.....	(NA)	159	210	161	176	102	74	(NA)	2.2	3.3	26.9
Wage and salary workers.....	(NA)	1,698	1,624	1,239	1,249	611	638	(NA)	23.5	25.3	3.3
Unpaid family workers.....	(NA)	21	19	16	12	2	10	(NA)	1.7	1.7	1.9
Unemployed.....	177	82	106	82	90	44	48	1.1	1.1	1.7	1.9
Not in labor force ²	4,408	2,929	2,169	1,766	1,653	488	1,165	41.3	40.6	36.0	35.6

NA Not available. X Not applicable. ¹ Percent distribution by labor force status based on total population, 14 years old and over.

No. 1117. CHARACTERISTICS OF FARM AND NONFARM FAMILIES: 1970 TO 1984

[As of March. 1970 based on 1969 census farm definition, 1980 and 1984 based on 1974 definition; see text, p. 632. Based on Current Population Survey, see text, pp.1 and 2 and Appendix III. 1970, 1980 and 1984 data are based on population controls from 1960, 1970 and 1980 censuses respectively; see text, p. 2]

CHARACTERISTIC	1970			1980			1984		
	Total	Farm	Nonfarm	Total	Farm	Nonfarm	Total	Farm	Nonfarm
Total families (1,000).....	51,237	2,457	48,781	58,426	1,666	56,760	61,997	1,558	60,439
Persons per family.....	3.62	3.77	3.61	3.28	3.35	3.27	3.24	3.38	3.24
With own children under 18 (1,000).....	28,665	1,169	27,496	30,517	745	29,772	31,046	705	30,340
Mean number of own children.....	2.33	2.61	2.32	1.89	2.00	1.89	1.85	2.08	1.85
Percent with:.....									
1 or 2 children.....	63.6	57.2	63.9	77.0	71.5	77.2	79.3	73.3	79.5
3 or 4 children.....	26.5	29.3	26.5	20.4	24.8	20.3	19.9	23.3	18.8
5 or more children.....	7.8	13.5	7.6	2.5	3.5	2.5	1.8	3.5	1.7
Percent distribution:.....									
Married couple.....	86.7	90.5	86.5	82.5	92.3	82.2	80.8	91.7	80.5
Male householder, no wife present.....	2.4	4.2	2.3	2.9	3.4	2.9	3.3	2.8	3.3
Female householder, no husband present.....	10.9	5.3	11.2	14.6	4.4	14.9	15.9	5.5	16.2
2-person families.....	34.5	37.0	34.3	39.2	42.7	39.1	40.1	40.1	40.1
3-to-5 person families.....	52.7	46.4	53.1	53.7	47.1	53.9	54.1	50.9	54.2
6-or-more person families.....	12.9	16.6	12.6	7.1	10.3	7.0	5.8	9.0	5.7

No. 1118. MONEY INCOME OF FARM AND NONFARM FAMILIES, BY RACE: 1975 TO 1983

[Number of families as of March 1984. 1975 data are based on population controls from 1970 census; 1980 and 1983 data are based on population controls from 1980 census. 1975 based on 1969 census farm definition, later data based on 1974 census farm definition. See headline, table 751. For definition of median, see Guide to Tabular Presentation]

RACE	MEDIAN FAMILY INCOME (CONSTANT 1983 DOLLARS)			Number of families, 1984 (1,000)	PERCENT FAMILIES WITH 1983 INCOME OF—				
	1975	1980	1983		Under \$10,000	\$10,000– \$14,999	\$15,000– \$19,999	\$20,000– \$24,999	\$25,000 or more
All families.....	\$25,385	\$25,419	\$24,580	61,997	16.0	11.6	11.8	11.5	49.1
Farm.....	20,076	19,049	18,925	1,558	23.2	16.3	13.5	12.0	35.0
Nonfarm.....	25,599	25,573	24,751	60,439	15.8	11.5	11.8	11.5	49.5
White.....	26,411	26,483	25,757	53,934	13.3	11.3	11.9	11.8	51.8
Farm.....	20,603	19,438	19,148	1,525	22.6	16.1	13.6	12.1	35.5
Nonfarm.....	26,639	26,672	25,952	52,409	13.0	11.1	11.8	11.7	52.3
Black.....	16,249	15,325	14,505	6,675	36.6	14.7	11.8	9.7	27.2
Farm.....	8,149	(b)	(b)	24	(b)	(b)	(b)	(b)	(b)
Nonfarm.....	16,422	15,356	14,540	6,651	36.6	14.7	11.8	9.7	27.2

B Base less than 75,000.

Source of tables 1116–1118: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 218; series P-27, No. 58 and earlier reports; and unpublished data.

NO. 1119. FARM POPULATION, BY STATE: 1960 TO 1980

[As of April 1 except 1960 and 1970, April-centered annual averages, 1960 and 1970, based on 1969 census farm definition; 1980 based on 1974 census farm definition. See text, p. 632. For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series K 17-81]

REGION, DIVISION, AND STATE	1960 (1,000)	1970 (1,000)	1980		DIVISION, AND STATE	1960 (1,000)	1970 (1,000)	1980	
			Total (1,000)	Per- cent of total popula- tion				Total (1,000)	Per- cent of total popula- tion
U.S.....	15,635	9,712	5,618	2.48	South Atlantic.....	2,838	1,357	619	1.67
Region:					Delaware.....	27	15	10	1.72
Northeast.....	1,119	699	357	.73	Maryland.....	132	79	45	1.07
Midwest.....	5,836	4,305	2,878	4.89	Virginia.....	467	238	113	2.12
South.....	7,160	3,754	1,777	2.36	West Virginia.....	155	78	29	1.47
West.....	1,520	954	605	1.40	North Carolina.....	950	463	188	3.20
New England.....	232	128	57	.46	South Carolina.....	433	144	54	1.72
Maine.....	61	30	14	1.24	Georgia.....	515	228	121	2.22
New Hampshire.....	22	11	7	.72	Florida.....	157	113	59	.60
Vermont.....	56	32	18	3.53	East South Central.....	2,494	1,329	593	4.04
Massachusetts.....	50	28	10	.17	Kentucky.....	618	452	245	6.68
Rhode Island.....	6	4	1	.12	Tennessee.....	677	384	176	3.83
Connecticut.....	36	23	7	.24	Alabama.....	519	216	88	2.25
Middle Atlantic.....	887	571	300	.82	Mississippi.....	680	277	85	3.36
New York.....	387	239	123	.70	West South Central.....	1,828	1,069	565	2.38
New Jersey.....	71	47	19	.26	Arkansas.....	415	228	108	4.71
Pennsylvania.....	428	284	158	1.33	Louisiana.....	313	160	59	1.40
East North Central.....	2,821	2,053	1,322	3.17	Oklahoma.....	294	209	130	4.29
Ohio.....	581	415	272	2.51	Texas.....	806	471	269	1.89
Indiana.....	539	416	276	5.03	Mountain.....	678	446	264	2.32
Illinois.....	621	473	314	2.75	Montana.....	115	90	58	7.42
Michigan.....	486	305	178	1.92	Idaho.....	148	102	69	7.32
Wisconsin.....	594	445	283	6.01	Wyoming.....	47	33	19	4.13
West North Central.....	3,015	2,252	1,556	9.06	Colorado.....	143	94	59	2.05
Minnesota.....	624	482	315	7.74	New Mexico.....	72	45	20	1.54
Iowa.....	703	544	391	13.42	Arizona.....	74	34	14	.51
Missouri.....	595	395	282	6.74	Utah.....	65	38	18	1.26
North Dakota.....	207	154	104	15.92	Nevada.....	13	9	6	.69
South Dakota.....	217	172	113	18.34	Pacific.....	842	508	342	1.07
Nebraska.....	329	253	178	11.35	Washington.....	199	133	82	1.98
Kansas.....	340	252	173	7.31	Oregon.....	165	119	78	2.96
					California.....	463	249	176	.75
					Alaska.....	3	2	1	.20
					Hawaii.....	12	6	5	.47

Source: U.S. Dept. of Agriculture, Economic Research Service, *Farm Population Estimates, 1910-70* (Statistical Bulletin No. 523), and U.S. Bureau of the Census, *1980 Census of Population*, vol. 1, chapter C (PC80-1-C).

NO. 1120. FARMS—NUMBER AND ACREAGE: 1950 TO 1985

[Estimated. Prior to 1959, excludes Alaska and Hawaii. For definition of farms and farmland, see text, pp. 631 and 632. 1950 and 1954, farms and farmlands as defined in census year shown; beginning 1959, based on census year definition indicated. Data for census years (indicated by italics) have been adjusted for underenumeration and are used as reference points along with data from acreage and livestock surveys in estimating data for other years. Minus sign (—) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7.]

YEAR	FARMS		LAND IN FARMS		YEAR	FARMS		LAND IN FARMS	
	Num- ber (1,000)	Annual change ¹ (1,000)	Total (mil. acres)	Aver- age per farm (acres)		Num- ber (1,000)	Annual change ¹ (1,000)	Total (mil. acres)	Aver- age per farm (acres)
1950.....	5,648	—64	1,202	213	1969 DEFINITION—Con.				
1954.....	4,798	—213	1,208	251	1976.....	2,738	—29	1,078	394
1969 DEFINITION					1977.....	2,706	—32	1,075	397
1959.....	4,105	—139	1,183	288	1978.....	2,672	—34	1,072	401
1960.....	3,963	—142	1,176	297	1974 DEFINITION				
1964.....	3,457	—127	1,146	332	1975.....	2,521	(x)	1,059	420
1965.....	3,356	—101	1,140	340	1976.....	2,497	—24	1,054	422
1969.....	3,000	—89	1,108	369	1977.....	2,456	—41	1,048	427
1970.....	2,949	—51	1,102	374	1978.....	2,436	—20	1,045	429
1971.....	2,902	—47	1,097	378	1979.....	2,432	—4	1,042	428
1972.....	2,860	—42	1,092	382	1980.....	2,433	—1	1,039	427
1973.....	2,823	—37	1,088	385	1981.....	2,434	—1	1,034	425
1974.....	2,795	—28	1,084	388	1982.....	2,401	—33	1,028	428
1975.....	2,767	—28	1,081	391	1983.....	2,370	—31	1,024	432
					1984.....	2,328	—37	1,019	438
					1985, prel.....	2,285	—43	1,016	445

X Not applicable. ¹ Average annual change from preceding year shown. For 1950, change from 1945.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Number of Farms, 1910-1959; Land in Farms 1950-1959*, by States (Statistical Bulletin No. 316); *Number of Farms and Land in Farms, 1959-70* (Statistical Bulletin No. 507); *Farms and Land in Farms, 1969-75* (Statistical Bulletin No. 594); *Farm Numbers, 1975-80*; and *Crop Production* (August releases).

No. 1121. FARMS—NUMBER AND ACREAGE, BY STATE: 1980 AND 1985

[1985 data preliminary. Based on 1974 census definition of farms and farmland; see text, p. 631. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7]

STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM		STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM	
	1980	1985	1980	1985	1980	1985		1980	1985	1980	1985	1980	1985
U.S.	2,433	2,285	1,039	1,016	427	445							
Alabama	59	54	12	12	207	222	Missouri	120	115	31	31	261	270
Alaska	(2)	1	2	2	3,378	2,000	Montana	24	24	62	61	2,601	2,542
Arizona	8	9	38	38	5,060	4,222	Nebraska	65	59	48	47	734	797
Arkansas	59	53	17	16	280	302	Nevada	3	3	9	9	3,100	3,000
California	81	79	34	33	417	418	New Hampshire	3	3	1	1	180	333
Colorado	27	27	36	34	1,358	1,259	New Jersey	9	9	1	1	109	111
Connecticut	4	4	(2)	(2)	117	118	New Mexico	14	14	47	45	3,487	3,214
Delaware	4	4	1	1	186	250	New York	47	45	9	9	200	200
Florida	39	39	13	13	344	333	North Carolina	93	76	12	11	126	145
Georgia	59	50	15	14	254	280	North Dakota	40	34	42	41	1,043	1,206
Hawaii	4	5	2	2	458	400	Ohio	95	89	16	16	171	180
Idaho	24	25	15	15	623	600	Oklahoma	72	71	35	33	481	485
Illinois	107	90	29	29	269	322	Oregon	35	37	18	18	517	486
Indiana	87	81	17	16	193	198	Pennsylvania	62	58	9	9	145	155
Iowa	119	111	34	34	284	306	Rhode Island	1	1	(2)	(2)	87	87
Kansas	75	72	48	48	644	667	South Carolina	34	28	6	6	188	214
Kentucky	102	100	15	15	143	150	South Dakota	39	37	45	45	1,169	1,216
Louisiana	37	36	10	10	273	278	Tennessee	96	98	14	13	142	133
Maine	8	8	2	2	195	250	Texas	189	184	138	136	731	739
Maryland	18	18	3	3	157	167	Utah	14	14	12	12	919	857
Massachusetts	6	6	1	1	115	167	Vermont	8	7	2	2	226	285
Michigan	65	63	11	11	175	175	Virginia	58	55	10	10	169	182
Minnesota	104	96	30	30	291	313	Washington	36	38	16	16	429	421
Mississippi	55	48	15	14	265	292	West Virginia	22	20	4	4	181	200
							Wisconsin	93	83	19	18	200	217
							Wyoming	9	9	35	35	3,846	3,869

2 Less than 500 farms or 500,000 acres.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Crop Production* (August 1985 release).

No. 1122. FARMS—NUMBER, 1959 TO 1982, AND ACREAGE, 1978 AND 1982, BY SIZE OF FARM

[See *Historical Statistics, Colonial Times to 1970*, series K 162-173]

SIZE OF FARM	NUMBER OF FARMS (1,000)					LAND IN FARMS (mil. acres)		CROPLAND HARVESTED (mil. acres)		PERCENT DISTRIBUTION, 1982		
	1959	1969	1974	1978	1982	1978	1982	1978	1982	Num- ber of farms	All land in farms	Crop- land har- vested
Total	3,711	2,730	2,314	2,258	2,241	1,014.8	986.8	317.1	326.3	100.0	100.0	100.0
Under 10 acres	244	182	128	151	188	.6	.7	.2	.3	8.4	.1	.1
10-49 acres	813	473	380	392	449	10.9	12.1	4.5	4.5	20.0	1.2	1.4
50-99 acres	658	460	385	366	344	25.9	24.8	10.2	9.5	15.4	2.5	2.9
100-179 acres	773	542	443	403	368	55.0	49.9	23.3	21.2	18.4	5.1	6.5
180-259 acres	414	307	253	234	211	50.6	45.7	23.7	21.7	9.4	4.6	6.7
260-499 acres	472	419	363	348	315	124.6	113.0	64.5	60.5	14.1	11.5	18.5
500-999 acres	200	216	207	213	204	146.7	140.5	75.2	77.6	9.1	14.2	23.8
1,000-1,999 acres	79	91	93	98	97	133.0	132.4	58.2	64.5	4.3	13.4	19.8
2,000 acres and over	57	60	62	63	65	467.4	467.5	57.3	66.6	2.9	47.4	20.4

No. 1123. FARMS—NUMBER AND ACREAGE, BY TENURE OF OPERATOR: 1969 TO 1982

[Full owners own all the land they operate. Part owners own a part, and rent from others the rest of the land they operate. See also *Historical Statistics, Colonial Times to 1970*, series K 109-113 and 142-146]

ITEM AND YEAR	Unit	Total	Full owner	Part owner	Tenant	PERCENT DISTRIBUTION			
						Total	Full owner	Part owner	Ten- ant
Number of farms:									
1969	1,000	2,730	1,706	672	353	100.0	62.5	24.6	12.9
1974	1,000	2,314	1,424	628	262	100.0	61.5	27.2	11.3
1978	1,000	2,258	1,298	681	279	100.0	57.5	30.1	12.4
1982	1,000	2,241	1,326	658	259	100.0	59.2	29.3	11.5
Under 50 acres	1,000	637	505	68	63	100.0	79.3	10.7	9.9
50-179 acres	1,000	711	489	144	79	100.0	68.7	20.2	11.1
180-499 acres	1,000	526	232	221	73	100.0	44.1	42.0	13.8
500-999 acres	1,000	204	57	120	27	100.0	27.9	58.8	13.2
1,000 acres or more	1,000	161	41	103	17	100.0	25.4	64.0	10.6
Land in farms:									
1969	Mil. acres	1,063	375	550	138	100.0	35.2	51.8	13.0
1974	Mil. acres	1,017	359	535	122	100.0	35.4	52.6	12.0
1978	Mil. acres	1,015	332	561	122	100.0	32.7	55.3	12.0
1982	Mil. acres	987	342	531	114	100.0	34.7	53.8	11.6

¹ Data by size of farm exclude abnormal farms; see footnote 2, table 1129.

Source of tables 1122 and 1123: U.S. Bureau of the Census, *Census of Agriculture: 1959, 1969, 1974*, vol. II and 1982, vol. I.

NO. 1124. FARMS—NUMBER, ACREAGE, AND VALUE, BY STATE: 1974 TO 1982

[For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series K 17-18]

REGION, DIVISION, AND STATE	NUMBER OF FARMS (1,000)			ALL LAND IN FARMS (mil. acres)			AVERAGE ACREAGE PER FARM			TOTAL VALUE ¹ (mil. dol.)		
	1974	1978	1982	1974	1978	1982	1974	1978	1982	1974	1978	1982
U.S.	2,314	2,258	2,241	1,017.0	1,014.8	986.8	440	449	440	342,099	631,433	774,158
Region:												
Northeast.....	128	131	131	23.4	23.7	23.0	183	181	175	15,460	24,079	28,272
Midwest.....	1,017	975	932	362.9	362.5	354.2	357	372	380	150,978	304,720	339,761
South.....	930	897	896	305.7	305.1	293.8	329	340	328	110,362	186,098	236,638
West.....	239	254	280	325.1	323.4	315.7	1,360	1,274	1,129	65,299	116,536	169,487
New England	23	24	26	4.8	4.8	4.6	206	196	178	2,915	4,339	5,385
Maine.....	6	7	7	1.5	1.5	1.5	237	221	210	519	800	1,053
New Hampshire.....	2	3	3	.5	.5	.5	210	193	170	286	426	555
Vermont.....	6	6	6	1.7	1.6	1.6	282	279	249	770	1,065	1,305
Massachusetts.....	4	5	5	.6	.6	.6	134	125	113	578	907	1,111
Rhode Island.....	1	1	1	.1	.1	.1	102	98	86	92	159	173
Connecticut.....	3	4	4	.4	.5	.4	129	130	118	671	983	1,188
Middle Atlantic	104	107	108	18.6	19.0	18.4	178	177	174	12,545	19,740	22,887
New York.....	44	43	42	9.4	9.5	9.2	215	220	218	4,800	6,315	7,509
New Jersey.....	7	8	8	1.0	1.0	.9	130	124	111	1,737	2,549	2,840
Pennsylvania.....	53	56	56	8.2	8.5	8.3	154	152	149	6,008	10,877	12,538
East North Central	445	423	403	90.0	90.9	88.6	202	215	220	61,406	130,814	134,967
Ohio.....	92	89	87	15.7	15.8	15.4	170	177	177	11,056	23,495	23,287
Indiana.....	88	82	77	16.8	16.8	16.3	191	204	211	12,078	26,658	26,128
Illinois.....	111	105	98	29.1	29.5	28.7	282	282	292	24,628	54,931	53,061
Michigan.....	64	60	59	10.8	11.0	10.9	169	183	187	5,989	10,585	13,389
Wisconsin.....	89	87	82	17.6	17.8	17.2	197	206	210	7,656	15,146	19,102
West North Central	573	552	529	272.9	271.6	265.6	477	492	502	89,572	173,906	204,793
Minnesota.....	99	98	94	27.6	28.5	27.7	280	288	294	11,855	25,762	32,326
Iowa.....	126	121	115	33.0	33.3	32.6	262	274	283	23,754	51,829	54,349
Missouri.....	116	115	112	29.8	30.1	29.3	258	262	260	11,811	21,972	25,094
North Dakota.....	43	40	36	42.4	41.7	40.2	992	1,033	1,104	8,268	14,565	17,609
South Dakota.....	43	39	37	46.0	44.4	43.8	1,074	1,147	1,179	6,656	11,466	15,429
Nebraska.....	68	64	60	46.2	46.1	45.0	683	723	746	13,017	24,417	31,910
Kansas.....	79	74	73	47.9	47.5	47.1	605	640	642	14,211	23,895	28,076
South Atlantic	296	282	274	60.9	59.8	57.2	206	212	209	34,987	57,395	69,752
Delaware.....	3	3	3	.6	.7	.7	185	197	195	672	964	1,218
Maryland.....	15	16	16	2.6	2.6	2.6	174	168	158	2,791	4,645	5,378
Virginia.....	53	50	52	9.7	9.5	9.4	184	189	182	5,396	8,572	10,622
West Virginia.....	17	17	19	3.5	3.5	3.6	207	202	190	1,050	2,082	2,421
North Carolina.....	91	82	73	11.2	11.0	10.3	123	135	142	6,634	11,560	13,669
South Carolina.....	29	27	25	6.2	6.0	5.6	211	226	224	2,887	4,581	5,193
Georgia.....	55	51	50	13.9	13.4	12.3	253	281	248	6,578	10,281	11,166
Florida.....	32	36	36	13.2	13.0	12.8	407	360	353	9,041	14,700	20,085
East South Central	306	284	283	53.7	51.6	49.2	175	182	174	22,006	39,460	46,466
Kentucky.....	102	102	102	14.4	14.6	14.2	141	143	140	6,158	12,705	14,661
Tennessee.....	84	87	91	13.1	12.7	12.5	140	146	138	6,117	10,884	12,592
Alabama.....	57	51	48	11.9	11.1	10.2	209	220	211	4,310	7,021	8,290
Mississippi.....	54	44	42	14.3	13.2	12.4	267	300	293	5,421	8,849	10,923
West South Central	328	331	340	191.0	193.7	187.3	582	588	551	53,369	89,243	120,420
Arkansas.....	51	52	51	14.6	15.0	14.7	287	291	291	6,135	11,445	14,460
Louisiana.....	33	31	32	9.1	9.3	8.9	275	286	282	4,679	9,111	12,070
Oklahoma.....	70	72	73	33.1	33.7	32.4	475	467	446	9,992	17,033	22,556
Texas.....	174	175	185	134.2	135.6	131.3	771	773	710	32,563	51,649	71,334
Mountain	112	117	122	253.0	252.6	246.1	2,262	2,168	1,857	32,028	56,761	76,179
Montana.....	23	24	24	62.2	61.7	60.5	2,665	2,618	2,568	6,952	12,084	15,866
Idaho.....	24	24	25	14.3	14.7	13.9	603	606	563	4,833	8,449	11,353
Wyoming.....	8	8	9	34.3	33.6	33.5	4,274	4,182	3,781	2,751	4,813	6,484
Colorado.....	26	27	27	35.9	35.3	33.5	1,408	1,310	1,237	6,734	11,220	15,228
New Mexico.....	11	12	13	47.0	47.9	47.1	4,170	3,894	3,493	3,649	6,634	8,322
Arizona.....	6	6	7	37.9	38.5	37.8	6,539	6,114	5,148	4,197	7,550	10,672
Utah.....	12	13	14	10.6	10.5	9.8	871	820	699	1,996	4,087	5,445
Nevada.....	2	2	3	10.6	10.4	10.0	5,209	4,346	3,671	915	1,922	2,509
Pacific	127	137	158	72.0	70.8	68.6	567	515	441	33,271	59,775	83,307
Washington.....	29	31	36	16.7	16.7	16.5	567	540	456	5,828	11,114	15,271
Oregon.....	27	29	34	18.2	18.1	17.7	682	633	520	4,552	8,588	12,665
California.....	68	73	82	33.4	32.7	32.2	493	447	390	21,793	38,152	61,532
Alaska.....	(2)	(2)	(2)	1.6	1.3	1.3	5,612	3,359	2,323	69	140	264
Hawaii.....	3	4	5	2.1	2.0	2.0	702	461	426	1,029	1,784	3,575

Z Less than 500. ¹ Value of land and buildings. For 1978 and 1982, based on reports for a sample of farms.
Source: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. 2, and 1982, vol. 1.

NO. 1125. FARM OPERATORS—TENURE AND CHARACTERISTICS: 1978 AND 1982

[In thousands, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series K 82-113]

TENURE AND CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$10,000 AND OVER		CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$10,000 AND OVER	
	1978	1982	1978	1982		1978	1982	1978	1982
Total operators	2,258	2,241	1,180	1,143	Tenant.....	279	259	181	170
White.....	2,200	2,187	1,163	1,127	Principal occupation:				
Black and other.....	58	54	17	16	Farming.....	1,269	1,235	934	901
Operators of Spanish origin ¹	18	16	7	6	Other.....	988	1,006	246	242
Female.....	113	122	(NA)	37	Place of residence: ²				
Under 25 years old.....	67	62	(NA)	39	On farm operated.....	1,586	1,591	876	833
25-34 years old.....	265	294	(NA)	173	Not on farm operated.....	422	429	187	202
35-44 years old.....	434	443	(NA)	223	Years on present farm: ²				
45-54 years old.....	549	505	(NA)	284	2 years or less.....	(NA)	127	(NA)	53
55-64 years old.....	552	536	(NA)	288	3-4 years.....	(NA)	193	(NA)	83
65 years old and over.....	371	400	(NA)	156	5-9 years.....	(NA)	360	(NA)	167
Average age (years).....	50.3	50.5	(NA)	49.1	10 years or more.....	(NA)	1,098	(NA)	638
Full owner.....	1,298	1,326	485	482	Days worked off farm: ²				
Part owner.....	681	656	514	491	None.....	943	862	654	591
					Less than 100 days.....	252	224	184	141
					100-199 days.....	181	189	79	77
					200 days or more.....	770	775	214	213

NA Not available. ¹ Operators of Spanish origin may be of any race. ² Excludes not reported.

Source: U.S. Bureau of the Census, *1982 Census of Agriculture*, vol. 1.

NO. 1126. FARMS—NUMBER, ACREAGE, AND VALUE, BY TYPE OF ORGANIZATION: 1978 AND 1982

[Excludes abnormal farms, see footnote 2, table 1129]

ITEM	Unit	Total ¹	Individual or family	Partnership	Corporation	PERCENT DISTRIBUTION			
						Total ¹	Individual or family	Partnership	Corporation
ALL FARMS									
Number of farms: 1978.....	1,000.....	2,255	1,966	233	50	100.0	87.2	10.3	2.2
1982.....	1,000.....	2,239	1,946	223	60	100.0	86.9	10.0	2.7
Land in farms: 1978.....	Mil. acres.....	959	673	158	120	100.0	70.2	18.5	12.5
1982.....	Mil. acres.....	932	642	152	127	100.0	68.9	16.3	13.6
Value of land and buildings: ² 1978.....	Bil. dol.....	623	(NA)	(NA)	(NA)	100.0	(NA)	(NA)	(NA)
1982.....	Bil. dol.....	763	547	119	90	100.0	71.7	15.6	11.8
Value of farm products sold: 1978.....	Mil. dol.....	106,829	(NA)	(NA)	(NA)	100.0	(NA)	(NA)	(NA)
1982.....	Mil. dol.....	131,590	77,907	21,520	31,480	100.0	59.2	16.4	23.9
FARMS WITH SALES OF \$10,000 AND OVER									
Number of farms: 1978.....	1,000.....	1,180	976	155	45	100.0	82.7	13.1	3.8
1982.....	1,000.....	1,143	934	152	52	100.0	81.7	13.3	4.5
Land in farms: 1978.....	Mil. acres.....	829	557	147	118	100.0	67.2	17.7	14.2
1982.....	Mil. acres.....	811	536	141	124	100.0	66.1	17.4	15.3

NA Not available. ¹ Include other types, not shown separately. ² Based on a sample of farms.

Source: U.S. Bureau of the Census, *1982 Census of Agriculture*, vol. 1.

NO. 1127. CHARACTERISTICS OF CORPORATE FARMS, BY TYPE: 1982

ITEM	Unit	All corporations	FAMILY HELD CORPORATIONS			OTHER CORPORATIONS		
			Total	1-10 stockholders	11 or more stockholders	Total	1-10 stockholders	11 or more stockholders
Farms.....	Number.....	59,792	52,652	50,842	1,810	7,140	5,997	1,143
Percent distribution.....	Percent.....	100.0	88.1	85.0	3.0	11.9	10.0	1.9
Land in farms.....	Mil. acres.....	127.3	112.9	100.7	12.2	14.5	8.5	6.0
Average per farm.....	Acres.....	2,129	2,143	1,980	6,737	2,024	1,413	5,231
Value of—								
Land and buildings ¹	Bil. dol.....	89.9	76.1	70.1	6.0	13.8	7.7	6.1
Average per farm.....	\$1,000.....	1,520	1,455	1,389	3,221	2,028	1,363	5,185
Farm products sold.....	Bil. dol.....	31.5	22.9	20.7	2.3	8.6	5.5	9.1
Average per farm.....	\$1,000.....	527	435	406	1,244	1,201	911	2,723

¹ Based on a sample of farms.

Source: U.S. Bureau of the Census, *1982 Census of Agriculture*, vol. 1.

No. 1128. CHARACTERISTICS OF INDIVIDUAL AND FAMILY FARMS: 1982

[Excludes abnormal farms; see footnote 2, table 1129]

SIZE OF FARM AND VALUE OF SALES	INDIVIDUAL AND FAMILY FARMS			ITEM	Unit	All farms	INDIVIDUAL AND FAMILY FARMS	
	Number (1,000)	Percent distribution	Percent of all farms				Amount	Percent of all farms
Farms, total	1,946	100.0	86.9	Land in farms	Mil. acres	932	642	68.9
Under 50 acres.....	579	29.8	91.0	Average size of farm.....	Acres.....	416	330	(x)
50-178 acres.....	639	32.9	89.9	Value of land and bldgs.	Bil. dol.	763.2	547.0	71.7
180-439 acres.....	450	23.1	85.6	Average per farm.....	\$1,000.....	341	281	(x)
500-999 acres.....	163	8.4	80.0	Average per acre.....	Dollars.....	819	852	(x)
1,000 acres or more.....	114	5.8	70.5	Value of farm products sold	Bil. dol.	131.6	77.9	59.2
Less than \$2,500.....	503	25.8	93.8	Average per farm.....	\$1,000.....	58.8	40.0	(x)
\$2,500-\$4,999.....	256	13.2	92.0	Crops ¹	Bil. dol.....	61.9	37.7	60.8
\$5,000-\$9,999.....	253	13.0	89.9	Grains.....	Bil. dol.....	36.4	26.4	72.4
\$10,000-\$19,999.....	227	11.7	87.8	Livestock, poultry and their products ²	Bil. dol.....	69.4	40.2	58.0
\$20,000-\$39,999.....	214	11.0	86.0	Cattle, calves.....	Bil. dol.....	31.5	15.3	48.6
\$40,000-\$99,999.....	281	14.4	84.4	Dairy products.....	Bil. dol.....	16.3	11.2	68.7
\$100,000-\$249,999.....	165	8.5	76.4	Poultry, poultry products.....	Bil. dol.....	9.8	5.8	59.2
\$250,000-\$499,999.....	35	1.8	60.1	Hogs and pigs.....	Bil. dol.....	9.8	6.8	69.3
\$500,000 and over.....	11	.6	39.7					

X Not applicable. ¹ Includes nursery and greenhouse products. ² Includes other commodities, not shown separately.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, vol. 1.

No. 1129. FARMS—NUMBER, ACREAGE, AND VALUE OF SALES, BY SIZE OF SALES: 1982

VALUE OF FARM PRODUCTS SOLD	Farms (1,000)	ACREAGE		VALUE OF SALES		PERCENT DISTRIBUTION		
		Total (mil.)	Average per farm	Total (mil. dol.)	Average per farm (\$1,000)	Farms	Acra-ge, total	Value of sales, total
Sales less than \$20,000	1,355	186	137	7,260	5.4	100.0	100.0	100.0
Occupation—Farming ¹	481	92	191	3,474	7.2	35.5	49.5	47.9
Occupation—Other than farming ¹	874	94	108	3,786	4.3	64.5	50.5	52.1
Less than \$2,500	536	45	83	558	1.0	39.6	24.2	7.7
\$2,500-\$4,999.....	276	31	111	999	3.6	20.5	16.7	13.8
\$5,000-\$9,999.....	282	45	181	2,009	7.1	20.8	24.2	27.7
\$10,000-\$19,999.....	259	65	251	3,694	14.3	19.1	34.9	50.9
Sales of \$20,000 or more	884	746	844	124,329	141	100.0	100.0	100.0
\$20,000-\$39,999.....	249	101	407	7,142	29	28.2	13.5	5.7
\$40,000-\$99,999.....	333	214	642	21,642	65	37.7	28.6	17.4
\$100,000-\$249,999.....	216	222	1,027	32,930	153	24.4	29.8	26.5
\$250,000-\$499,999.....	59	106	1,807	19,851	338	6.7	14.2	16.0
\$500,000 and over.....	28	104	3,726	42,764	1,538	3.0	13.9	34.4
Abnormal farms ²	2	55	32,638	311	185	100.0	100.0	100.0

¹ Occupation determined by 50 percent or more of work time on farm or other occupation.² Represents institutional farms, experimental and research farms, Indian reservations, etc.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, vol. 1.

No. 1130. FARMS—NUMBER, ACREAGE, AND VALUE OF SALES, BY TYPE OF FARM: 1982

[Farms were classified in a particular group if its sales for that product group amounted to 50 percent or more of the total value of farm products sold. The Standard Industrial Classification (SIC) code for each farm type is shown in parentheses. Excludes abnormal farms]

ITEM	Unit	Total	Cash grain ¹ (011)	Cotton (0131)	To-bacco (0132)	Livestock ² (021)	Dairy (024)	Poul-try, eggs (025)	Fruit and nut (017)	Vege-table (016)	All other
Number of farms	1,000	2,239	576	21	131	906	164	42	84	31	283
With sales under \$10,000.....	Percent.....	48.9	28.5	17.2	59.4	65.5	3.5	20.3	55.4	52.0	63.6
With sales between \$10,000 and \$39,999.....	Percent.....	22.7	31.7	27.4	28.1	18.7	21.5	8.0	20.9	23.1	17.4
With sales of \$40,000 or more.....	Percent.....	28.4	39.8	55.4	12.5	15.8	75.0	71.7	23.6	24.9	18.9
Land in farms	Mil. acres	932	287	17	14	478	50	5	9	5	89
Products sold, value	Mil. dol.	131,590	33,723	3,141	2,782	39,849	18,129	10,081	5,782	3,922	14,181
Percent distribution:											
Number of farms.....	Percent.....	100.0	25.7	.9	5.9	40.5	7.3	1.9	3.8	1.4	12.6
Land in farms.....	Percent.....	100.0	30.8	1.8	1.5	51.0	5.3	.5	1.0	.8	7.5
Products sold, value.....	Percent.....	100.0	25.6	2.4	2.1	30.3	13.8	7.7	4.4	3.0	10.7

¹ Includes wheat, rice, corn for grain, soybeans, and other cash grains.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, vol. 1.

² Excludes dairy, poultry, and animal specialty farms.

NO. 1131. IRRIGATION OF AGRICULTURAL LAND—SUMMARY: 1959 TO 1982

[See also *Historical Statistics, Colonial Times to 1970*, series J 85-91]

ITEM	Unit	17 WESTERN STATES AND LA.					ALL STATES		
		1959	1969	1974	1978	1982	1974	1978	1982
Approximate land area.....	Mill. acres.....	1,189	1,187	1,187	1,187	1,186	2,266	2,266	2,266
Farms, total.....	1,000.....	1,044	850	745	745	771	2,314	2,258	2,241
Irrigated.....	1,000.....	267	210	187	223	220	237	281	278
Percent irrigated of total farms.....	Percent.....	25.6	24.7	26.4	29.9	28.5	10.2	12.4	12.4
Land in farms, total.....	Mill. acres.....	715	700	680	679	681	1,017	1,015	987
In irrigated farms.....	Mill. acres.....	213	218	211	227	220	229	252	247
Land irrigated, total.....	Mill. acres.....	31	35	37	44	42	41	50	49
Percent irrigated of total land in farms.....	Percent.....	4.3	5.0	5.4	6.5	6.4	4.0	5.0	5.0

Source: U.S. Bureau of the Census, *Census of Agriculture: 1959, 1969, 1974, and 1982*.

NO. 1132. FEDERAL IRRIGATION PROJECTS, BY TYPE OF SERVICE: 1960 TO 1983

TYPE OF SERVICE	Unit	1960	1965	1970	1975	1979	1980	1981	1982	1983
All projects:										
Irrigable acreage.....	1,000.....	8,171	9,612	10,198	10,930	12,236	11,944	11,941	12,592	11,901
Irrigated acreage.....	1,000.....	8,900	8,012	8,570	9,309	10,234	10,093	10,122	10,635	9,236
Gross crop value.....	Mill. dol.....	1,158	1,557	1,882	4,419	6,909	7,438	6,744	7,323	6,841
Full service: ¹										
Irrigable acreage.....	1,000.....	4,326	4,540	4,844	4,925	5,076	5,082	5,089	5,085	5,098
Irrigated acreage.....	1,000.....	3,488	3,731	4,037	4,213	4,254	4,275	4,290	4,249	3,978
Gross crop value.....	Mill. dol.....	581	675	847	1,858	2,348	2,668	2,553	2,514	2,856
Supplemental and temporary service: ²										
Irrigable acreage.....	1,000.....	3,845	5,072	5,354	6,005	7,160	6,862	6,852	7,507	6,804
Irrigated acreage.....	1,000.....	3,412	4,281	4,533	5,096	5,980	5,818	5,832	6,366	5,258
Gross crop value.....	Mill. dol.....	577	882	1,035	2,561	4,561	4,770	4,191	4,809	3,984

¹ Applies to irrigable land receiving its sole irrigation supply through Bureau of Reclamation-constructed facilities and to previously irrigated land in non-Federal projects where a substantial part of the facilities was constructed, rehabilitated, or replaced by the Bureau. ² Applies to irrigable land receiving irrigation water through Bureau projects in addition to supply from non-project sources and to land for which water is delivered under temporary arrangements.

Source: U.S. Bureau of Reclamation, *Annual Report*.

NO. 1133. FOREIGN OWNERSHIP OF U.S. AGRICULTURAL LAND: 1984

[In thousands of acres, except percent. Covers "foreign persons" reporting under the Agricultural Foreign Investment Disclosure Act of 1978. As defined in the Act, a "foreign person" is any person who is not a U.S. citizen and who is not a permanent resident alien of the U.S. Foreign governments and entities are also "foreign persons." Also, each successive link in a chain of U.S. entities containing foreign interests is considered a "foreign person." An entity is deemed a "foreign person" because another "foreign person" holds at least a 5 percent or more interest in the entity. Therefore acreage figures reported do not necessarily mean that they are wholly owned by foreign investors. Covers reports received and accepted as of October 8, 1984]

CHARACTERISTIC	ACREAGE OWNED ¹		ACREAGE ACQUIRED ²		CHARACTERISTIC	ACREAGE OWNED ¹		ACREAGE ACQUIRED ²	
	Total	Percent	Total	Percent		Total	Percent	Total	Percent
Total ³	14,038	100.0	413	100.0	Country of foreign owner:				
Type of owner:					Canada.....	1,731	12.3	254	61.5
Corporation.....	11,583	82.5	364	88.1	Germany, Fed. Rep.....	727	5.2	20	4.8
Partnership.....	1,317	9.4	25	6.1	Hong Kong.....	17	.1	-	-
Individual.....	947	6.7	22	5.3	Mexico.....	215	1.5	2	.5
Other.....	190	1.4	2	.5	Netherlands Antilles.....	544	3.9	3	.7
Size of holding:					Switzerland.....	261	1.9	3	.7
Less than 100 acres.....	126	.9	3	.7	United Kingdom.....	391	2.8	2	.5
100-299 acres.....	263	2.0	8	1.9	Through U.S. interest: ⁴				
300-999 acres.....	848	6.0	21	5.1	Canada.....	2,863	20.4	9	2.2
1,000 acres or more.....	12,780	91.0	381	92.3	France.....	328	2.3	-	-
Land use:					Germany, Fed. Rep.....	483	3.4	5	1.2
Cropland.....	1,965	14.0	76	18.4	Hong Kong.....	1,692	12.1	-	-
Pasture.....	2,751	19.6	42	10.2	Netherlands.....	337	2.4	28	6.8
Forest.....	8,059	57.4	271	65.6	Netherlands Antilles.....	245	1.7	1	.2
Other agriculture.....	567	4.0	10	2.4	United Kingdom.....	1,539	11.0	11	2.7
Other nonagriculture.....	695	5.0	13	3.1					

- Represents zero.

¹ Landholdings by foreign interests as of Oct. 8. ² Acquisitions by foreign interests from Jan. 1-Oct. 8, 1984. ³ Includes other countries not shown separately. ⁴ Reports filed by U.S. corporations with foreign shareholders.Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land through December 31, 1984* (Economic Research Service Staff Report AGES 850320), 1985.

NO. 1134. FARM REAL ESTATE—SUMMARY: 1970 TO 1985

[1970 and 1975, value data as of Mar. 1; 1977-1981, as of Feb. 1; 1982-1985, as of April 1. Excludes Alaska and Hawaii. 1970 value data based on 1989 census definition of farms and farmland; beginning 1975, based on 1974 census definition, see text, p. 631. Total value of land and buildings is estimated by multiplying the number of acres of farmland by the average value per acre of land and buildings. Average values are based on land-value data obtained from the census of agriculture. For intercensal years, estimates are made using indexes of average value per acre. Indexes of average value per acre are based on surveys conducted by the U.S. Dept. of Agriculture]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Total value	Bil. dol.	215.0	358.6	495.0	553.0	653.1	763.3	843.7	843.3	804.8	794.0	689.8
Land	Bil. dol.	175.5	300.5	419.6	471.1	559.7	658.0	728.3	729.8	697.3	688.9	598.8
Buildings	Bil. dol.	39.5	58.1	75.4	81.9	93.4	105.3	115.4	113.5	107.5	105.1	91.0
Average value per acre ¹	Dollars	196	340	474	531	628	737	819	823	785	782	679
Index	1977 = 100	42	75	100	109	125	145	158	157	148	146	128
Average value, operating unit	\$1,000	73.0	142.5	201.9	227.4	269.3	314.4	347.3	352.0	340.3	341.2	296.4

¹ Land and buildings.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Farm Real Estate Market Developments*, annual.

NO. 1135. FARM REAL ESTATE—VALUE OF LAND AND BUILDINGS, BY STATE: 1980 TO 1985

[See headnote, table 1134. See also *Historical Statistics, Colonial Times to 1970*, series K 18]

STATE	VALUE OF LAND AND BUILDINGS (mil. dol.)				AVERAGE VALUE OF LAND AND BUILDINGS, PER ACRE				INDEXES OF AVERAGE VALUE PER ACRE (1977 = 100)			
	1980	1983	1984	1985	1980	1983	1984	1985	1980	1983	1984	1985
U.S.	763,285	804,765	794,034	689,807	\$737	\$788	\$782	\$679	145	148	146	128
Alabama	9,616	9,582	9,309	8,844	780	826	809	769	149	165	162	154
Arizona	10,173	10,836	11,054	9,949	267	289	295	265	167	177	181	163
Arkansas	12,147	15,746	15,023	13,671	918	972	933	849	163	174	167	152
California	48,131	63,678	63,294	56,965	1,424	1,918	1,918	1,726	166	223	223	201
Colorado	13,932	15,799	16,180	15,047	387	454	468	435	147	161	166	154
Connecticut	1,170	1,328	1,407	1,604	2,387	2,655	2,814	3,208	135	152	162	185
Delaware	1,169	1,189	1,231	1,084	1,798	1,829	1,866	1,642	151	143	146	128
Florida	18,505	20,488	20,898	19,853	1,381	1,576	1,608	1,527	141	152	155	147
Georgia	13,440	12,727	12,291	11,676	896	929	910	865	132	124	122	116
Idaho	10,610	12,122	11,966	11,009	589	814	814	749	134	140	140	129
Illinois	58,781	52,722	51,667	37,717	2,041	1,837	1,800	1,314	135	117	115	84
Indiana	31,298	26,726	26,140	20,651	1,863	1,610	1,594	1,259	150	122	121	96
Iowa	62,192	56,751	50,358	35,754	1,840	1,684	1,499	1,064	139	121	108	77
Kansas	28,352	29,028	27,983	22,386	587	601	583	466	134	126	122	98
Kentucky	14,250	15,211	14,602	13,142	976	1,049	1,007	906	147	149	143	129
Louisiana	12,686	13,645	13,645	12,680	1,256	1,351	1,351	1,256	169	195	195	181
Maine	959	1,104	1,170	1,335	594	708	750	856	135	152	162	185
Maryland	6,154	5,727	5,899	5,863	2,258	2,121	2,185	2,077	166	180	182	155
Massachusetts	1,158	1,315	1,415	1,613	1,608	1,963	2,061	2,372	135	152	162	185
Michigan	12,900	13,942	13,942	11,890	1,111	1,223	1,223	1,052	138	141	141	121
Minnesota	32,906	35,416	32,937	25,032	1,086	1,165	1,083	823	154	155	144	109
Mississippi	11,957	12,784	13,330	11,863	819	894	939	835	156	174	183	163
Missouri	28,232	26,707	26,536	20,433	902	856	856	659	154	133	133	102
Montana	14,546	15,877	16,141	13,559	235	259	264	222	142	146	149	125
Nebraska	30,290	33,227	29,117	20,984	635	701	617	444	137	129	118	90
Nevada	2,230	2,216	2,260	2,034	248	249	254	229	178	188	192	173
New Hampshire	547	634	684	760	1,004	1,174	1,244	1,419	135	152	162	185
New Jersey	3,006	3,140	3,137	3,420	2,947	3,140	3,234	3,525	120	125	129	141
New Mexico	6,658	8,188	8,315	7,484	185	178	182	163	166	176	180	162
New York	6,768	7,782	7,910	7,594	720	817	842	808	119	129	133	128
North Carolina	14,262	14,454	15,177	13,659	1,219	1,314	1,380	1,242	141	150	158	142
North Dakota	16,888	17,999	17,999	14,759	405	439	439	360	136	142	142	116
Ohio	28,026	23,914	22,813	17,794	1,730	1,504	1,444	1,126	156	121	116	90
Oklahoma	21,244	23,417	23,067	18,684	614	699	699	566	143	156	156	137
Oregon	10,625	12,690	12,563	10,427	587	705	698	579	132	138	138	127
Pennsylvania	13,176	13,224	14,282	13,139	1,464	1,520	1,642	1,510	140	140	128	136
Rhode Island	186	207	214	243	2,523	2,760	2,926	3,935	135	152	162	185
South Carolina	5,760	5,487	5,192	5,036	900	946	927	899	130	128	125	121
South Dakota	13,140	15,486	15,021	11,116	292	348	338	250	141	140	136	101
Tennessee	13,274	13,588	13,995	13,156	976	1,014	1,044	982	136	131	135	127
Texas	80,255	74,528	81,117	89,229	436	544	593	652	144	191	208	229
Utah	6,572	6,720	6,740	6,066	530	560	571	514	169	179	183	165
Vermont	1,255	1,431	1,517	1,730	721	842	893	1,017	135	152	162	185
Virginia	10,074	11,025	10,803	10,587	1,028	1,125	1,114	1,031	139	144	143	140
Washington	11,997	15,208	15,472	14,853	736	933	961	923	124	152	157	151
West Virginia	2,810	2,752	2,536	2,105	669	668	667	554	150	177	172	143
Wisconsin	18,674	20,257	18,832	15,254	1,004	1,113	1,046	847	159	165	165	128
Wyoming	5,936	6,755	6,851	6,166	161	193	197	177	126	133	136	122

¹ Estimated by combining survey data to obtain an average rate of change for Arizona, Nevada, New Mexico, and Utah.

² Estimated using the average of the percentage changes in the Colorado, Idaho, and Montana indexes.

³ Estimated by combining survey data to obtain an average rate of change for New England States.

⁴ Estimated using the average of the percentage changes in the Alabama and Georgia indexes.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Farm Real Estate Market Developments*, annual.

NO. 1136. BALANCE SHEET OF THE FARMING SECTOR: 1970 TO 1984

[In billions of dollars, except percent. As of December 31. Includes farm operator households. Minus sign (—) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 204-219, for data before revisions]

ITEM	CURRENT DOLLARS						CONSTANT (1972) DOLLARS ¹					
	1970	1975	1980	1982	1983	1984, prel.	1970	1975	1980	1982	1983	1984, prel.
Assets	326.0	576.4	1,108.3	1,082.0	1,061.4	955.8	356.5	458.2	621.2	521.7	492.9	427.8
Annual percent change ²	4.8	12.1	14.0	-1.2	-1.9	-9.9	.3	5.1	6.3	-8.4	-5.5	-13.2
Physical assets:												
Real estate.....	223.2	418.2	846.6	808.6	798.0	693.7	244.1	332.5	474.5	389.9	370.6	310.5
Non-real estate:												
Livestock and poultry ³	23.7	29.4	60.6	53.0	50.0	49.6	25.9	23.4	34.0	25.6	23.2	22.2
Machinery, motor vehicles.....	34.4	64.0	102.5	108.8	105.8	99.4	37.6	50.9	57.4	52.5	49.2	44.5
Crops stored ⁴	10.7	21.3	36.5	40.6	33.2	33.7	11.7	18.9	20.5	19.6	15.4	15.1
Household furnishings, equipment.....	10.0	11.7	19.4	23.0	24.4	26.1	10.9	9.3	10.9	11.1	11.3	11.7
Financial assets:												
Deposits and currency.....	12.4	14.5	16.2	17.4	18.2	20.0	13.6	11.5	9.1	8.4	8.4	8.9
United States savings bonds.....	3.5	3.9	3.8	3.5	3.6	3.6	3.9	3.1	2.1	1.7	1.7	1.6
Investments in cooperatives.....	8.0	13.4	22.8	27.1	28.5	30.0	8.7	10.6	12.8	13.1	13.2	13.4
Claims	326.0	576.4	1,108.3	1,082.0	1,061.4	955.8	356.5	458.2	621.2	521.7	492.9	427.8
Liabilities	54.5	91.7	182.3	217.2	216.2	212.5	59.6	72.9	102.2	104.7	100.4	95.1
Real estate debt.....	30.3	49.7	95.8	110.0	112.6	111.6	33.1	39.5	53.7	53.0	52.3	49.9
Non-real estate debt to—												
Commodity Credit Corp. ⁵	1.9	.4	5.0	15.4	10.8	8.7	2.1	.3	2.8	7.4	5.0	3.9
Other reporting agencies ⁶	17.4	33.0	63.9	72.2	73.9	74.2	19.0	26.2	35.8	34.8	34.3	33.2
Non-reporting creditors ⁷	4.8	8.5	17.7	19.5	18.9	18.0	5.2	6.8	9.9	9.4	8.8	8.1
Proprietors' equities.....	271.5	484.7	926.0	864.8	845.1	743.3	296.9	385.3	519.0	417.0	392.4	332.7

¹ Constant dollar figures are based on gross national product implicit price deflators for year as published in the *Economic Report of the President, 1985* by Council of Economic Advisers. ² Average change from prior year shown; for 1970, change from 1965. For explanation of annual percent change, see Guide to Tabular Presentation. ³ Excludes horses and mules.

⁴ Includes all crops held on farms and crops held off farms by farmers as security for CCC loans. ⁵ Nonrecourse CCC loans secured by crops owned by farmers are included as assets in this balance sheet. ⁶ Loans of all operating banks, production credit associations, and Farmers Home Administration, and discounts of Federal intermediate credit banks for agricultural credit corporations and livestock loan companies. ⁷ Loans and credits extended by dealers, merchants, finance companies, individuals, and others. Estimates based on fragmentary data.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1984*, and unpublished data.

NO. 1137. FARM DEBT OUTSTANDING, BY TYPE OF LENDER: 1970 TO 1984

[In billions of dollars, except percent. As of Dec. 31. Minus sign (—) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 361-367 and K 376-380]

LENDER	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, prel.
Farm debt, total	54.5	81.8	91.7	104.1	123.0	141.1	166.1	182.3	202.1	217.2	216.2	212.5
Annual percent change ¹	6.0	10.7	12.1	13.5	18.2	13.9	18.6	9.7	10.9	7.5	—	—1.7
Farm debt/asset ratio (percent).....	16.7	16.3	15.9	15.7	16.7	16.2	16.4	16.5	18.2	20.1	20.4	22.2
Real estate debt	30.3	44.7	49.7	55.3	63.5	71.6	85.6	95.8	105.8	110.1	112.6	111.6
Federal land banks.....	7.1	13.5	16.0	18.6	21.5	24.8	29.8	36.2	43.8	47.7	48.8	49.1
Life insurance companies.....	5.6	6.3	6.7	7.4	8.8	10.5	12.2	12.9	13.1	12.9	12.7	12.4
Commercial and savings banks.....	3.8	6.0	6.3	6.8	7.8	8.6	8.6	8.7	8.4	8.4	9.3	10.2
Farmers Home Administration ²	2.4	3.2	3.4	3.7	4.0	4.1	7.1	7.7	8.7	9.1	9.4	10.0
Individuals and others ³	11.4	15.8	17.3	18.9	21.3	23.6	27.9	30.2	31.8	32.0	32.3	29.9
Non-real estate debt	24.1	37.1	42.0	48.8	59.5	69.5	80.5	86.6	96.3	107.2	103.6	100.9
Commercial and savings banks.....	11.1	18.2	20.2	23.3	25.7	28.3	31.0	31.8	32.9	36.1	38.1	39.7
Production credit associations ⁴	5.5	9.9	11.1	12.6	13.9	15.5	18.8	20.5	22.1	21.3	20.2	18.8
Farmers Home Administration.....	0.8	1.0	1.8	1.9	3.1	5.8	9.0	11.8	14.4	14.8	14.6	15.6
Individuals and others ⁵	4.8	7.5	8.5	10.0	12.2	14.3	16.6	17.7	18.8	19.5	18.9	18.0
Commodity Credit Corporation.....	1.9	.3	.4	1.0	4.5	5.7	5.1	5.0	8.0	15.4	10.8	8.7

¹ Annual change from prior year shown; for 1970, change from 1965. For explanation of average annual percent change, see Guide to Tabular Presentation. ² Includes direct and insured farm ownership, farm housing, soil and water and recreation loans secured by farm real estate. ³ Includes seller and other individual financing of farm real estate sales and unclassified credit sources. ⁴ Also includes Federal intermediate credit bank loans to financial groups other than production credit associations.

⁵ Includes merchants and dealers, individuals, Small Business Administration, and all other unclassified credit sources. Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1984*.

No. 1138. INDICATORS OF FINANCIAL STRESS IN AGRICULTURE, 1980 TO 1984, AND BY FARM REGION, 1984

[In percent. For years ending in June, except as noted. Based on a survey of approximately 1,000 bankers which reflects their perception of farm financial conditions in their lending areas]

FINANCIAL STRESS INDICATOR	1980	1981	1982	1983	1984					
					Total	North-east ¹	Corn Belt ²	South ³	Plains ⁴	West ⁵
Average delinquency rate ⁶	(NA)	(NA)	3.9	3.7	4.4	5.3	4.3	4.0	4.1	5.0
Farm borrowers who had bank financing discontinued	4.5	2.9	3.3	2.9	3.4	3.5	3.0	4.5	3.7	2.9
Farm borrowers loaned-up to practical limit ⁷	27	(NA)	32	28	33	30	31	46	31	39
Farmers in bank lending area who went out of business	2.1	(NA)	2.2	2.3	3.6	3.4	3.6	4.4	3.8	3.0
Farmers in bank lending area who went through bankruptcy	(NA)	(NA)	.8	1.1	2.6	2.6	2.3	4.9	2.3	2.3

NA Not available. ¹ ME, NH, VT, MA, RI, CT, NY, NJ, PA, DE, MD, DC, MI, WI, and MN.

² OH, IN, IL, IA, and MO.

³ VA, WV, NC, SC, GA, FL, KY, TN, AL, MS, AR, and LA. ⁴ ND, SD, NE, KS, OK, and TX. ⁵ MT, ID, WY, CO, NM, AZ, UT, NV, WA, OR, CA, AK, and HI.

⁶ Percentage of dollar farm loan volume 30 days or more delinquent.

⁷ As of June of year shown.

⁸ Farm customers who have reached their maximum debt load.

Source: American Bankers Association, Washington, DC, *Agricultural Banker*, selected issues.

No. 1139. NET CASH INCOME AND NET CASH FLOW OF FARM OPERATORS: 1970 TO 1984

[In billions of dollars. Net cash income and net cash flow provide measures of the cash available to farm operators in a calendar year. Minus sign (—) indicates net loan redemption]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, prel.
Net cash income.....	18.1	29.0	29.4	27.3	34.6	37.0	37.2	35.8	38.3	38.3	39.2
Gross cash income.....	54.8	90.7	97.2	99.3	117.1	135.1	143.3	146.5	149.0	148.1	153.3
Cash expenses.....	36.7	61.7	67.8	72.0	82.6	98.1	106.1	110.7	110.7	109.8	114.1
Change in loans outstanding.....	2.4	9.1	11.1	14.4	15.9	23.8	15.3	15.6	7.3	3.5	—1.5
Real estate loans.....	1.1	4.6	5.2	7.6	7.5	13.0	9.4	9.3	4.0	2.5	—8
Nonreal estate loans ¹	1.2	4.5	6.0	6.8	8.3	10.9	5.9	6.2	3.3	1.0	—7
Net change in operators' currency..... and demand deposits.....	.1	.1	(z)	.1	.1	.1	.1	.2	.2	.3	.5
Net rent to all landlords.....	2.4	4.7	4.0	4.0	4.6	5.6	5.8	5.8	5.7	4.6	5.4
Capital expenditures.....	6.8	12.4	14.0	15.0	17.9	19.9	18.0	16.8	13.7	13.0	12.5
Net cash flow ²	16.1	30.4	30.6	30.8	37.2	46.7	40.4	40.6	37.9	33.6	31.2

¹ Less than \$50,000.

² Excludes Commodity Credit Corporation loans.

³ Net cash income plus change in loans outstanding plus net change in currency and demand deposits plus net rent to all landlords minus capital expenditures.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

No. 1140. FARMS, FARM INCOME, AND ASSETS, BY VALUE OF SALES: 1984

[Minus sign (—) indicates loss]

FARMS WITH VALUE OF SALES OF—	Number of farms ¹ (1,000)	Gross income ² (bil. dol.)	Cash receipts ³ (bil. dol.)	Net income ⁴ (bil. dol.)	Assets ⁵ (bil. dol.)	Debt ⁶ (bil. dol.)	Debt to asset ratio ⁷ (percent)	PERCENT DISTRIBUTION			
								Number of farms ¹	Gross income ²	Net income ³	Assets ⁴
Total.....	2,328	166.2	153.2	26.7	955.8	212.5	22.2	100.0	100.0	100.0	100.0
Less than \$2,500.....	532	3.5	.7	—9	67.4	7.0	10.4	22.8	2.1	—3.3	7.1
\$2,500—\$4,999.....	275	2.3	1.1	—6	40.3	4.6	11.4	11.8	1.4	—2.3	4.2
\$5,000—\$9,999.....	314	4.0	2.6	—5	50.7	6.5	12.8	13.5	2.4	—1.8	5.3
\$10,000—\$19,999.....	269	5.5	4.2	—4	62.9	9.3	14.8	11.6	3.3	—1.5	6.6
\$20,000—\$39,999.....	247	8.8	7.6	.1	88.1	14.3	16.2	10.6	5.3	.4	9.2
\$40,000—\$99,999.....	353	26.7	24.6	2.1	194.9	41.0	21.0	15.2	16.1	8.0	20.4
\$100,000—\$249,999.....	229	39.2	37.4	7.3	224.6	52.4	23.3	9.9	23.6	27.4	23.5
\$250,000—\$499,999.....	77	28.0	27.2	6.3	110.1	31.9	29.0	3.3	16.8	23.6	11.5
\$500,000 and over.....	31	48.3	47.9	13.2	116.9	45.5	38.9	1.3	29.1	49.5	12.2

¹ Based on 1974 census definition. See text, pp. 631 and 632. ² Data are before inventory adjustment. For components of income, see table 1143.

³ Includes government payments and other farm income.

⁴ Data as of December 31. Includes farm households.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, 1994.

NO. 1141. FARM ASSETS AND DEBT, BY STATE: 1983 AND 1984

[As of December 31. Includes farm operator households]

DIVISION AND STATE	ASSETS (bil. dol.)		DEBT (bil. dol.)		Debt/ asset ratio, 1984 (per- cent)	DIVISION AND STATE	ASSETS (bil. dol.)		DEBT (bil. dol.)		Debt/ asset ratio, 1984 (per- cent)
	1983	1984	1983	1984			1983	1984	1983	1984	
U.S.....	1,061	956	216	213	22.2	S.A.—Con.					
N.E.:						NC.....	20.6	19.1	4.1	4.0	21.1
ME.....	1.9	2.0	.4	.4	20.1	SC.....	7.2	7.2	1.8	1.7	24.1
NH.....	.9	1.1	.1	.1	9.7	GA.....	16.8	16.3	4.8	4.6	28.5
VT.....	2.4	2.6	.4	.4	14.8	FL.....	24.8	23.8	4.3	4.2	17.5
MA.....	1.9	2.2	.2	.3	12.0	E.S.C.:					
RI.....	.3	.3	(2)	(2)	9.5	KY.....	20.6	19.5	4.1	4.1	20.9
CT.....	1.9	2.3	.3	.3	11.1	TN.....	19.6	19.0	3.1	3.1	16.2
M.A.:						AL.....	12.7	12.3	2.5	2.4	19.5
NY.....	13.5	13.2	3.5	3.1	23.3	MS.....	17.8	16.1	4.2	4.2	26.4
NJ.....	4.2	4.5	.5	.5	11.0	W.S.C.:					
PA.....	20.0	19.0	3.0	3.0	15.8	AR.....	19.8	18.3	4.2	4.2	23.0
E.N.C.:						LA.....	17.2	16.3	3.4	3.4	20.7
OH.....	31.3	26.2	5.2	5.1	19.6	OK.....	30.1	25.5	6.0	5.6	22.1
IN.....	34.8	29.4	7.6	7.4	25.1	TX.....	99.6	108.0	13.6	14.0	13.0
IL.....	65.4	51.4	11.3	11.2	21.9	Mt.:					
MI.....	20.5	18.4	4.4	4.4	23.9	MT.....	21.0	18.1	4.5	4.3	23.8
WI.....	30.8	27.1	7.6	7.4	27.4	ID.....	16.0	15.0	3.7	3.8	24.0
W.N.C.:						WY.....	8.5	7.8	1.3	1.2	16.0
MN.....	48.0	39.8	11.8	11.7	29.5	CO.....	21.1	15.7	4.8	4.7	23.8
IA.....	68.6	53.6	16.8	16.3	30.5	NM.....	10.0	9.1	1.4	1.4	15.2
MO.....	36.4	30.2	7.1	7.0	23.2	AZ.....	12.5	11.5	1.9	2.0	17.0
ND.....	25.6	22.4	5.8	5.7	25.6	UT.....	8.3	7.6	1.1	1.1	14.9
SD.....	21.7	17.6	5.4	5.3	30.0	NV.....	2.9	2.6	.4	.4	16.6
NE.....	41.1	32.2	10.8	10.3	32.0	Pac.:					
KS.....	36.5	32.4	8.8	8.4	26.0	WA.....	20.3	19.6	4.0	4.1	20.8
SA.:						OR.....	16.6	14.3	3.5	3.4	23.7
DE.....	1.6	1.4	.4	.4	26.8	CA.....	75.2	69.3	17.8	17.8	25.7
MD.....	9.7	7.5	1.2	1.2	15.5	AK.....	.4	.4	(2)	(2)	10.4
VA.....	15.1	15.0	2.2	2.3	15.1	HI.....	4.0	4.2	.3	.3	7.5
WV.....	3.6	3.2	.4	.4	12.2						

Z Less than \$50 million.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary*, 1984.

NO. 1142. GROSS FARM PRODUCT—SUMMARY: 1970 TO 1984

[In billions of dollars. For definition of gross product, see text, pp. 427-430. Minus sign (—) indicates decrease. See *Historical Statistics, Colonial Times to 1970*, series K 220-239, for single-year figures prior to minor revisions issued in 1981]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
CURRENT DOLLARS												
Total value of farm output ¹	54.9	97.8	99.5	101.1	106.8	124.2	149.9	149.0	165.6	158.1	142.0	168.7
Farm marketings cash receipts ²	50.4	92.7	88.1	94.5	96.0	112.5	131.7	140.5	142.6	144.3	137.4	145.1
Farm products consumed ³	.8	1.3	1.3	1.3	1.2	1.2	1.3	1.1	1.1	1.0	1.0	1.0
Change in farm inventories.....	.1	-1.8	3.5	-2.0	1.1	1.1	5.7	-5.3	7.8	-2.1	-10.4	8.6
Gross rental value of farm housing.....	3.0	4.7	5.4	6.0	7.3	8.2	9.8	11.1	12.2	12.9	12.4	12.8
Less: Intermediate products purchased.....	29.1	50.1	50.7	55.2	58.4	65.5	78.4	81.3	84.8	83.0	80.5	89.7
Equals: Gross farm product.....	25.8	47.7	48.9	45.9	48.4	58.7	71.6	67.7	80.8	75.1	61.5	78.9
Less: Capital consumption allowances ⁴	5.9	8.5	10.1	11.1	12.6	14.2	16.3	18.9	20.6	21.9	22.4	22.8
Indirect business taxes.....	2.0	2.3	2.5	2.7	2.8	2.8	3.0	3.4	3.3	3.4	3.5	3.7
Plus: Subsidies to farm operators.....	3.3	.5	.7	.6	1.6	2.7	1.2	1.2	1.8	3.3	8.8	7.4
Equals: Income.....	21.2	37.4	37.0	32.7	34.6	44.4	53.4	46.6	58.8	53.1	44.4	59.9
CONSTANT (1972) DOLLARS												
Total value of farm output ¹	63.1	65.1	65.9	66.7	69.6	71.2	74.4	71.9	76.2	74.7	67.9	76.8
Farm marketings cash receipts ²	57.6	60.4	59.8	63.7	65.4	67.0	67.9	70.6	69.3	72.8	69.4	70.0
Farm products consumed ³	.8	1.0	1.0	1.0	.8	.7	.7	.6	.6	.5	.5	.5
Change in farm inventories.....	.4	-.3	1.2	-1.9	-.3	—	-2.4	-2.3	3.4	-1.2	-4.2	4.0
Gross rental value of farm housing.....	3.7	3.3	3.2	3.1	3.0	2.8	2.6	2.4	2.1	1.8	1.6	1.5
Less: Intermediate products purchased.....	32.0	33.3	32.3	34.6	36.5	38.6	40.3	36.9	35.9	35.7	34.1	37.2
Equals: Gross farm product.....	31.1	31.8	33.6	32.1	33.1	32.6	34.2	35.0	40.3	38.9	33.8	39.7

— Represents zero. ¹ Includes other farm income not shown separately. ² Includes net CCC loans. ³ In households where raised. ⁴ With capital consumption adjustment.Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July issues and unpublished data.

NO. 1143. FARM INCOME AND EXPENSES: 1970 TO 1984

[In billions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series K 192, K 259-260, K 264-285, and K 326]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Gross income from farming	58.8	98.3	100.6	102.9	108.8	128.4	150.7	149.6	166.0	161.6	150.6	174.0
Marketings, cash receipts.....	50.5	92.4	88.9	95.4	96.2	112.2	131.5	139.8	142.1	142.9	136.3	141.8
Crops ¹	21.0	51.1	45.8	49.0	48.6	53.0	62.3	71.8	72.9	72.7	65.8	69.1
Net CCC loans ²	-1	-2	.2	1.0	3.6	(2)	-9	5	3.0	9.1	-7	-8
Livestock.....	29.5	41.3	43.1	46.3	47.6	59.2	69.2	68.0	69.2	70.3	69.4	72.7
Government payments.....	3.7	5	.8	.7	1.8	3.0	1.4	1.3	1.9	3.5	9.3	8.4
Value of home consumption.....	.8	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.1	1.0	1.0	1.0
Rental value of dwellings.....	3.3	4.9	5.4	6.1	7.3	8.1	10.5	11.0	12.6	12.9	12.1	11.9
Other farm income ³.....	.6	.8	1.0	1.1	1.2	1.9	2.2	2.3	2.5	2.6	2.5	3.0
Value of change in inventories ⁴	(2)	-1.6	3.4	-1.5	1.1	2.1	5.0	-5.9	5.8	-1.4	-10.6	7.8
Expenses of farm production	44.5	71.0	75.0	82.7	88.9	101.0	119.0	129.4	136.1	136.9	135.6	139.5
Intermediate products.....	25.6	42.1	43.2	47.9	50.7	58.9	69.9	74.5	75.4	72.7	73.6	77.2
Farm origin.....	13.3	21.6	20.0	22.6	23.5	28.8	35.2	34.9	33.3	31.5	33.1	33.4
Feed.....	8.0	14.5	12.9	14.4	14.0	16.0	19.3	21.0	20.9	18.6	21.3	20.4
Livestock.....	4.3	5.1	5.0	5.9	7.1	10.2	13.0	10.7	9.0	9.7	8.8	9.5
Seed ⁴.....	.9	1.9	2.1	2.4	2.5	2.6	2.9	3.2	3.4	3.2	3.0	3.5
Manufactured inputs.....	5.4	10.8	12.4	13.4	13.9	15.3	17.9	22.4	23.9	22.2	21.3	23.1
Fertilizer and lime.....	2.4	6.1	6.7	6.5	6.5	6.6	7.4	9.5	9.4	8.0	7.6	8.9
Pesticides.....	1.0	1.5	1.9	2.1	1.9	2.7	3.4	3.5	4.2	4.3	4.2	4.1
Fuel and oil.....	1.7	2.7	3.8	4.0	4.4	4.6	5.6	7.9	8.6	7.8	7.4	7.9
Electricity.....	.3	.5	.8	.9	1.1	1.4	1.4	1.5	1.7	2.0	2.1	2.2
Repairs and operation ⁵	2.8	4.0	4.5	5.1	5.6	6.6	7.3	7.6	7.6	7.7	7.5	7.9
Machine hire, custom work, and contract labor ⁶	1.3	1.9	2.2	2.3	2.5	2.7	3.1	2.8	3.0	3.1	2.6	3.0
Other.....	2.8	3.9	4.1	4.4	5.0	5.5	6.4	6.7	7.7	8.2	9.1	9.7
Interest.....	3.4	5.7	6.4	7.4	8.5	10.2	13.1	16.3	19.9	21.8	21.4	21.1
Real estate.....	1.8	2.8	3.3	3.8	4.3	5.1	6.2	7.5	9.1	10.5	10.8	10.7
Non-real estate.....	1.6	2.9	3.1	3.6	4.2	5.2	6.9	8.7	10.7	11.3	10.6	10.4
Wages paid hired farm labor ⁷	3.9	5.5	5.9	6.7	7.1	7.4	8.0	8.3	7.9	9.1	8.7	9.0
Net rent to nonoperator landlords.....	2.1	4.1	4.0	3.5	3.4	4.0	4.8	5.0	5.1	5.0	4.0	4.8
Capital consumption ⁸	6.9	10.5	12.4	13.8	15.5	17.0	19.3	21.5	23.6	23.9	23.5	23.0
Business taxes.....	2.6	3.1	3.2	3.5	3.7	3.6	3.9	3.9	4.2	4.4	4.3	4.4
Net income of farm operators from farming	14.4	27.3	25.5	20.2	19.9	27.4	31.7	20.2	29.8	24.6	15.0	34.5
In constant (1967) dollars.....	12.4	18.5	15.8	11.8	11.0	14.0	14.6	8.2	11.0	8.5	5.0	11.1

Z Less than \$50 million. ¹ Forest product sales are included in cash receipts for crops from 1970 to 1977 and in other farm income beginning 1978. ² Commodity Credit Corporation (CCC) loans made minus loans repaid. ³ Minus sign (-) indicates decrease in inventories. ⁴ Includes bulbs, plants, and trees. ⁵ Expenditures for repairs and maintenance of farm buildings, motor vehicles, and machinery. ⁶ Includes social security payments on contract labor. ⁷ Includes social security payments on cash wages and perquisites. ⁸ Depreciation and accidental damage.

NO. 1144. FARM INCOME—CASH RECEIPTS FROM FARM MARKETINGS: 1970 TO 1984

[Represents gross receipts from commercial market sales as well as net Commodity Credit Corporation loans. See also *Historical Statistics, Colonial Times to 1970*, series K 286-302]

ITEM	FARM MARKETINGS (mil. dol.)								PERCENT		
	1970	1975	1979	1980	1981	1982	1983	1984	1970	1980	1984
Total	50,509	88,902	131,505	139,760	142,087	142,938	136,260	141,835	100.0	100.0	100.0
All crops.....	20,977	45,813	62,269	71,769	72,936	72,870	66,817	69,096	41.5	51.4	48.7
Feed crops.....	5,109	12,183	14,040	18,308	17,774	17,231	16,191	16,451	10.1	13.1	11.8
Corn.....	3,326	8,530	10,279	13,959	13,349	12,625	11,640	11,817	6.6	10.0	8.2
Hay.....	614	1,387	1,674	1,917	1,850	1,990	2,121	2,290	1.2	1.4	1.6
Sorghum.....	641	1,302	1,168	1,392	1,344	1,484	1,159	1,298	1.3	1.0	1.0
Barley.....	298	625	648	736	857	793	960	941	.6	.5	.7
Oil-bearing crops.....	3,591	7,480	14,300	15,493	13,853	13,814	13,505	13,666	7.1	11.1	9.6
Soybean.....	3,164	6,637	12,938	14,241	12,245	12,519	12,136	12,111	6.3	10.2	8.5
Peanuts.....	360	742	831	607	1,048	818	793	1,098	.7	.4	.8
Food grains.....	2,542	8,195	9,047	10,402	11,619	11,489	9,733	9,739	5.0	7.4	6.9
Wheat.....	2,067	7,026	7,823	8,854	9,852	9,913	8,798	8,443	4.1	6.3	5.0
Rice.....	447	1,136	1,188	1,519	1,729	1,515	882	1,223	.1	1.1	1.0
Vegetables ¹	2,814	5,346	6,481	7,299	8,771	8,113	8,105	8,911	5.6	5.2	6.3
Fruits, tree nuts ¹	2,071	3,563	6,462	6,557	6,575	6,805	6,026	6,285	4.1	4.7	4.4
Cotton lint, seed.....	1,254	2,311	4,305	4,478	4,551	4,928	3,316	3,359	2.5	3.2	2.4
Tobacco.....	1,388	2,155	2,271	2,672	3,250	3,342	2,831	2,841	2.7	1.9	2.0
Other ²	2,208	4,579	5,363	6,560	6,543	6,969	7,109	7,983	4.4	4.7	5.5
All livestock and products.....	29,532	43,089	69,236	67,991	69,151	70,268	69,443	72,739	58.5	48.6	51.3
Cattle and calves.....	13,633	17,520	35,025	31,819	29,536	29,813	28,582	30,501	27.0	22.8	21.6
Dairy products.....	6,527	9,923	14,642	16,365	16,095	16,234	18,757	17,927	12.9	11.7	12.6
Hogs.....	4,478	7,916	9,058	8,849	9,794	10,659	9,785	9,691	8.9	8.4	6.8
Broilers.....	1,364	2,953	4,026	4,303	4,646	4,478	4,873	5,970	2.9	3.1	4.2
Eggs.....	2,109	2,814	3,329	3,247	3,849	3,438	3,449	4,086	4.2	2.3	2.9
Turkeys, other poultry ³	494	808	1,405	1,482	1,522	1,522	1,557	1,962	1.0	1.1	1.4
Sheep and lambs.....	334	386	470	471	416	445	426	465	.7	.3	.3
Farm chickens.....	100	110	164	128	132	119	147	170	.2	.1	.1
Other ⁴	393	659	1,117	1,234	1,359	1,560	1,767	1,867	.8	1.0	1.3

¹ Melons included with vegetables. ² Sugar crops, greenhouse and nursery products, forest products (for 1970 and 1975), legume and grass seeds, hops, mint, broom-corn, popcorn, hemp fiber and seed, and flax fiber. ³ Ducks, geese, guineas, pigeons, quail, pheasants, and turkey hatching eggs. ⁴ Wool, mohair, honey, beeswax, bees, goats, rabbits, and fur animals.

Source of tables 1143 and 1144: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1984*.

NO. 1145. CASH INCOME, BY TYPE OF FARM: 1983 AND 1984

[In billions of dollars, except as indicated. Farms were classified in a particular group if its sales for that product group amounted to 50 percent or more of the total value of farm products sold. The Standard Industrial Classification (SIC) code for each farm type is shown in parentheses]

ITEM	Total ¹	Cash grain (011)	Cotton (0131)	To-bacco (0132)	Other field crop (0133, 0134, 0139)	Vegetable and melon (016)	Fruit and tree nut (017)	Horticultural specialty (018)	Cattle, hog, and sheep ² (021)	Dairy (024)	Poultry and egg (025)
Number of farms (1,000):											
1983.....	2,370	611	22	137	107	33	89	31	960	174	44
1984.....	2,393	601	22	135	105	32	88	30	945	172	44
Gross cash income:											
1983.....	148.1	40.9	4.2	2.9	6.6	6.1	7.5	4.3	37.3	20.8	10.4
1984.....	153.3	40.6	4.1	3.0	6.7	6.5	7.8	5.0	39.4	20.7	12.6
Cash receipts: ³											
1983.....	136.3	33.9	3.2	2.8	5.6	6.0	7.5	4.3	36.0	20.3	10.3
1984.....	141.8	34.6	3.3	2.9	5.8	6.4	7.7	4.9	38.0	19.7	12.1
Government payments: ⁴											
1983.....	9.3	6.6	.9	.1	.2	.1	(z)	(z)	.9	.2	(z)
1984.....	8.4	5.6	.8	.1	.1	.1	(z)	(z)	.8	.7	(z)
Other farm income:											
1983.....	2.5	.4	(z)	(z)	.9	(z)	(z)	(z)	.4	.3	(z)
1984.....	3.0	.5	(z)	(z)	1.0	(z)	.1	.1	.5	.4	(z)
Cash expenses: ⁵											
1983.....	109.8	30.1	2.6	1.9	3.4	2.6	4.4	2.2	34.2	14.8	8.7
1984.....	114.1	32.2	2.7	2.0	3.6	2.7	4.6	2.2	35.1	14.9	8.5
Net cash income:											
1983.....	38.3	10.8	1.6	1.1	3.3	3.5	3.2	2.2	3.2	6.0	1.7
1984.....	39.2	8.4	1.4	1.0	3.1	3.8	3.2	2.8	4.3	5.8	4.0
Net farm income:											
1983.....	15.0	-2.8	.6	.5	3.4	3.0	1.8	2.1	1.1	3.4	1.5
1984.....	34.5	8.1	1.7	1.0	4.1	3.4	1.9	2.7	2.8	3.6	3.8

¹ Less than \$50 million. ² Includes other types of farms not shown separately. ³ Includes farms, ranches and feedlots. ⁴ Cash receipts from farm marketing. ⁵ Includes payment-in-kind (PIK) entitlements. ⁶ Excludes depreciation, labor perquisites, and those expenses associated with farm dwellings. Includes net rent to all landlords.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Outlook*, September 1985, and unpublished data.

NO. 1146. GOVERNMENT PAYMENTS TO FARMS BY VALUE OF FARM SALES: 1975 TO 1984

[Data for 1983 and 1984 include PIK (payment-in-kind) program. See also *Historical Statistics, Colonial Times to 1970*, series K326]

VALUE OF FARM SALES	TOTAL PAYMENTS (mil. dol.)					AVERAGE PAYMENT PER FARM (dollars)				
	1975	1980	1982	1983	1984	1975	1980	1982	1983	1984
Total.....	807	1,286	3,492	9,295	8,430	320	529	1,455	3,922	3,621
Less than \$2,500.....	37	23	54	81	30	46	37	94	146	56
\$2,500-\$4,999.....	38	24	60	39	32	123	79	201	136	116
\$5,000-\$9,999.....	54	51	127	88	108	174	165	420	285	342
\$10,000-\$19,999.....	82	59	146	288	233	260	206	527	1,052	865
\$20,000-\$39,999.....	140	146	355	559	544	445	521	1,330	2,210	2,200
\$40,000-\$99,999.....	230	414	1,065	1,976	1,874	729	1,169	2,986	5,554	5,309
\$100,000-\$249,999.....	^a 105	^a 282	1,005	2,949	2,984	^a 1,091	^a 1,700	4,341	12,763	13,004
\$250,000-\$499,999.....	^a 64	^a 195	397	1,867	1,583	^a 1,665	^a 2,412	6,160	26,580	20,560
\$500,000 and over.....	57	91	293	1,438	1,044	5,193	3,849	9,829	46,990	33,418

¹ Farms with sales of \$100,000-\$199,999.

² Farms with sales of \$200,000-\$499,999.

NO. 1147. INCOME PER FARM OPERATOR FAMILY BY SOURCE AND VALUE OF FARM SALES: 1983 AND 1984

[In dollars. Net income data are before inventory adjustment and include farm operator households. Minus sign (-) indicates loss. See also footnote 1, table 1140]

YEAR AND SOURCE	Less than \$2,500	\$2,500-\$4,999	\$5,000-\$9,999	\$10,000-\$19,999	\$20,000-\$39,999	\$40,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000 and over
1983, total.....	18,514	16,394	17,477	15,575	19,178	15,512	40,800	96,001	427,366
Net farm income.....	-1,498	-2,176	-1,636	-1,293	403	6,082	30,554	84,727	411,624
Off-farm income.....	20,012	18,570	19,113	16,868	18,774	9,430	10,246	11,274	15,742
1984, total.....	19,267	17,198	18,612	16,253	21,473	15,791	42,568	93,346	437,501
Net farm income.....	-1,648	-2,228	-1,538	-1,471	392	6,073	31,878	81,875	423,063
Off-farm income.....	20,935	19,427	20,150	17,725	21,082	9,719	10,690	11,471	14,438

Source of tables 1146 and 1147: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, 1984.

No. 1148. INDEXES OF PRICES RECEIVED AND PAID BY FARMERS: 1970 TO 1984

[1977 = 100, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 344-353]

ITEM	1970	1973	1974	1975	1976	1978	1979	1980	1981	1982	1983	1984, prel.
Prices received, all products	60	98	105	101	102	115	132	134	139	133	134	142
Crops ¹	52	91	117	105	102	105	116	125	134	121	127	138
Food grains.....	59	138	192	155	129	122	147	165	166	146	148	143
Feed grains and hay.....	57	90	134	127	120	101	114	132	141	120	143	146
Cotton.....	36	54	85	68	99	91	96	114	111	92	104	108
Tobacco.....	62	74	85	93	93	109	118	125	140	153	155	153
Oil-bearing crops.....	41	93	96	81	85	93	103	102	110	89	102	109
Fruits.....	58	84	86	85	80	137	144	124	130	175	122	197
Commercial vegetables ²	59	78	81	92	91	105	110	113	136	126	130	135
Livestock and products.....	67	104	94	98	101	124	147	144	143	145	141	146
Meat animals.....	72	118	98	100	101	134	166	156	150	155	147	151
Dairy products.....	59	74	86	90	100	109	124	135	142	140	140	139
Poultry and eggs.....	64	101	94	103	102	106	111	112	116	110	118	135
Prices paid, total³	55	71	81	89	95	108	123	138	150	157	161	164
Production ⁴	54	73	83	91	97	108	125	138	148	150	153	155
Feed.....	54	86	104	100	103	98	110	123	134	122	134	135
Feeder livestock.....	77	121	93	85	97	140	185	177	164	164	160	154
Seed.....	43	64	82	94	92	105	110	118	138	141	141	151
Fertilizer.....	48	56	92	120	102	100	108	134	144	144	137	143
Agricultural chemicals.....	62	67	76	102	111	94	96	102	111	119	125	128
Fuels and energy.....	52	57	79	88	93	105	137	188	213	210	202	207
Farm and motor supplies.....	66	73	89	102	100	104	115	134	147	152	152	147
Interest payable per acre.....	39	55	65	77	88	117	143	174	211	241	250	251
Taxes payable per acre.....	68	77	81	87	94	100	107	115	123	124	129	132
Wage rates ⁵	57	69	79	85	93	107	117	128	137	144	148	150
Parity ratio (1910-14 = 100)⁶	72	91	86	76	71	70	71	65	61	57	56	58

¹ Includes other items not shown separately. ² Excludes potatoes. ³ Includes production items, interest, taxes, wage rates, and a family living component. The family living component is the Consumer Price Index for all urban consumers from the Bureau of Labor Statistics. See text, pp. 467 and 468, and table 795. ⁴ Straight average of seasonally adjusted indexes. ⁵ Ratio of prices received by farmers to prices paid.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Agricultural Prices: Annual Summary*.

No. 1149. FARM INCOME, 1983 AND 1984, AND INCOME/DEBT RATIO, 1984, BY STATE

[Farm income data are before inventory adjustment. Includes farm operator households. For farm debt data by State, see table 1141. Minus sign (-) indicates net loss]

DIVISION AND STATE	GROSS FARM INCOME (mil. dol.)		NET FARM INCOME (mil. dol.)		Net farm income/debt ratio, 1984 (per-cent)	DIVISION AND STATE	GROSS FARM INCOME (mil. dol.)		NET FARM INCOME (mil. dol.)		Net farm income/debt ratio, 1984 (per-cent)
	1983	1984	1983	1984			1983	1984	1983	1984	
U.S.	161,188	166,200	25,562	26,704	12.6	S.A.—con.					
N.E.:						WV.....	323		-43.5	-54.8	-14.2
ME.....	497	519	52.4	71.6	17.7	NC.....	4,296	4,820	763.2	1,140.9	28.3
NH.....	145	142	20.4	17.6	17.0	SC.....	1,202	1,323	96.5	168.3	9.7
VT.....	490	470	90.8	76.4	20.0	GA.....	3,703	4,091	738.1	1,083.5	23.3
MA.....	444	450	130.1	135.6	51.8	FL.....	4,915	4,947	1,844.3	1,901.1	45.6
RI.....	66	70	28.8	32.5	112.2	E.S.C.:					
CT.....	380	423	72.5	106.0	40.7	KY.....	3,241	3,078	829.8	528.7	13.0
M.A.:						TN.....	2,416	2,526	276.9	288.2	9.4
NY.....	3,002	3,195	216.9	393.6	12.8	MS.....	2,488	2,550	533.6	556.5	23.2
NJ.....	647	652	156.4	147.4	30.0		2,602	2,594	384.5	258.4	6.1
PA.....	3,556	3,700	534.1	683.2	22.9	W.S.C.:					
E.N.C.:						AR.....	3,538	3,887	645.3	876.5	21.0
OH.....	4,293	4,349	497.0	441.3	8.6	LA.....	2,107	1,859	325.0	31.7	.9
IN.....	4,788	4,714	263.2	20.4	.3	OK.....	3,324	3,206	395.9	300.6	5.3
IL.....	8,217	8,050	1,419.2	851.4	7.6	TX.....	11,155	11,477	2,097.3	1,649.6	11.8
MI.....	3,580	3,832	537.0	529.1	12.0	Mt.:					
WI.....	5,987	6,186	1,072.6	1,283.7	17.3	MT.....	1,878	1,837	153.5	95.9	2.2
W.N.C.:						ID.....	2,444	2,596	297.5	442.2	12.3
MN.....	7,671	7,365	1,290.7	866.1	7.4	WY.....	687		-40.1	-72.9	-5.9
IA.....	10,916	10,774	1,946.9	1,684.8	10.3	CO.....	3,317	3,732	233.0	556.1	11.9
MO.....	4,645	4,528	456.0	327.0	4.7	NE.....	1,134	1,127	140.7	72.8	5.2
ND.....	3,492	3,246	814.8	502.1	8.7	AZ.....	1,745	1,752	225.4	149.5	7.7
SD.....	3,048	3,389	406.1	674.3	12.6	UT.....	711	708	78.5	62.4	5.5
NE.....	7,574	8,152	947.1	1,498.1	14.6	NV.....	263	281	13.8	31.2	7.2
KS.....	6,390	6,958	426.5	847.0	10.1	Pac.:					
S.A.:						WA.....	3,410	3,478	840.4	831.0	20.4
DE.....	485	549	89.3	138.5	36.3	OR.....	2,046	2,227	261.7	435.3	12.8
MD.....	1,236	1,338	122.8	192.7	16.5	CA.....	14,235	15,423	2,685.3	3,311.6	18.6
VA.....	1,857	2,164	47.8	297.4	13.2	AK.....	29	31	5.1	8.9	21.0
						HI.....	573	653	140.8	233.0	74.3

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary*, 1984.

NO. 1150. FARM INCOME—FARM MARKETING, 1983 AND 1984, GOVERNMENT PAYMENTS, 1984, AND
PRINCIPAL COMMODITIES, 1984, BY STATE

[In millions of dollars. Cattle include calves; sheep include lambs; and greenhouse includes nursery. See table 1143]

DIVISION AND STATE	1983			1984			Government payments	State rank for total farm marketings and principal commodities in order of marketing receipts, 1984
	Farm marketings			Farm marketings				
	Total	Crops	Live-stock and products	Total	Crops	Live-stock and products		
U.S.	136,260	66,817	69,443	141,835	69,096	72,739	8,430	Cattle, dairy products, soybeans, corn.
N.E.	1,725	610	1,115	1,769	669	1,101	20	42—Potatoes, dairy prod., eggs, cattle.
ME	438	155	283	456	167	289	2	48—Dairy prod., greenhouse, eggs, apples.
NH	110	32	78	109	33	76	8	43—Dairy prod., cattle, maple prod., apples.
VT	432	30	402	400	31	369	3	44—Greenhouse, cranberries, dairy prod., eggs.
MA	367	230	137	383	251	132	3	49—Greenhouse, dairy prod., eggs, potatoes.
RI	56	45	12	62	48	14	3	45—Eggs, dairy prod., greenhouse, tobacco.
CT	320	118	203	359	139	221	152	21—Dairy prod., greenhouse, cattle, eggs.
M.A.	6,198	1,921	4,278	6,376	2,088	4,288	64	41—Greenhouse, dairy prod., soybeans, tomatoes.
NY	2,637	718	1,918	2,705	794	1,911	7	17—Dairy prod., cattle, eggs, greenhouse.
NJ	501	365	137	505	371	135	81	
PA	3,060	838	2,223	3,166	923	2,242		
E.N.C.	22,848	11,777	11,072	22,186	11,247	10,939	1,490	13—Soybeans, dairy prod., corn, hogs.
OH	3,815	2,096	1,720	3,811	1,999	1,812	232	11—Corn, soybeans, hogs, dairy prod.
IN	4,084	2,214	1,870	3,924	2,150	1,774	309	5—Corn, hay, hogs, cattle.
IL	7,142	4,847	2,295	6,738	4,556	2,182	168	20—Dairy prod., corn, cattle, soybeans.
MI	2,901	1,634	1,267	2,777	1,479	1,298	238	6—Dairy prod., cattle, corn, hogs.
WI	5,126	986	4,140	5,136	1,063	4,073	3,299	6—Dairy prod., soybeans, corn, cattle.
W.N.C.	36,711	16,288	20,444	37,745	16,593	21,153	530	3—Hogs, corn, soybeans, dairy prod.
MN	6,472	3,135	3,337	6,242	2,904	3,338	743	12—Cattle, soybeans, hogs, dairy prod.
IA	9,344	4,204	5,140	9,312	4,300	5,013	225	24—Wheat, cattle, sunflowers, barley.
MO	3,770	1,507	2,263	3,729	1,562	2,166	463	19—Cattle, wheat, hogs, corn.
ND	2,731	2,083	648	2,544	1,854	690	231	4—Cattle, corn, hogs, soybeans.
SD	2,567	918	1,649	2,889	1,086	1,803	533	7—Cattle, wheat, hogs, sorghum grain.
NE	6,432	2,214	4,218	7,082	2,559	4,523	318	40—Broilers, soybeans, corn, dairy prod.
KS	5,395	2,207	3,189	5,947	2,328	3,620	5	34—Broilers, dairy prod., corn, soybeans.
S.A.	15,594	8,618	6,975	17,130	9,338	7,792	24	29—Cattle, dairy prod., broilers, tobacco.
DE	454	139	316	520	137	383	46	6 47—Cattle, dairy prod., broilers, apples.
MD	1,047	328	719	1,154	343	811	72	10—Tobacco, broilers, hogs, turkeys.
VA	1,453	561	892	1,794	673	1,121	45	35—Soybeans, tobacco, eggs, dairy prod.
WV	211	41	170	226	44	182	79	14—Broilers, peanuts, soybeans, eggs.
NC	3,630	1,951	1,679	4,126	2,198	1,927	41	9—Oranges, greenhouse, cattle, tomatoes.
SC	994	588	405	1,136	708	428	395	22—Tobacco, horses/mules, cattle, dairy prod.
GA	3,196	1,480	1,716	3,587	1,739	1,849	97	26—Cattle, dairy prod., tobacco, soybeans.
FL	4,609	3,530	1,078	4,587	3,496	1,091	57	26—Broilers, cattle, soybeans, eggs.
E.S.C.	8,652	4,074	4,577	8,994	4,146	4,847	164	27—Soybeans, broilers, cotton, cattle.
KY	2,742	1,266	1,475	2,652	1,240	1,412	210	16—Broilers, soybeans, rice, cattle.
TN	1,797	889	908	1,985	981	1,003	121	31—Soybeans, cotton, rice, broilers.
AL	2,040	773	1,267	2,189	802	1,387	309	23—Cattle, wheat, turkeys, dairy prod.
MS	2,073	1,146	927	2,168	1,123	1,045	782	2—Cattle, cotton, dairy prod., sorghum grain.
W.S.C.	16,140	6,934	9,205	17,108	7,081	10,028	1,422	33—Cattle, wheat, barley, dairy prod.
AR	2,875	1,380	1,495	3,336	1,462	1,874	132	25—Cattle, potatoes, wheat, dairy prod.
LA	1,685	1,165	500	1,527	1,050	478	25	38—Cattle, wheat, sheep, sugar beets.
OK	2,568	879	1,689	2,562	787	1,776	154	15—Cattle, wheat, corn, dairy prod.
TX	9,012	3,490	5,521	9,683	3,782	5,901	49	36—Cattle, dairy prod., hay, wheat.
Mt.	10,401	4,415	5,987	10,975	4,604	6,371	118	32—Cattle, cotton, dairy prod., hay.
MT	1,489	832	657	1,419	647	772	28	46—Cattle, hay, dairy prod., potatoes.
ID	2,114	1,228	886	2,288	1,386	903	171	18—Wheat, dairy prod., cattle, apples.
WY	594	113	482	574	107	466	76	30—Cattle, wheat, dairy prod., greenhouse.
CO	2,926	925	2,000	3,352	1,148	2,204	335	1—Dairy prod., cattle, cotton, grapes.
NM	964	329	634	989	332	657	7	50—Greenhouse, dairy prod., hay, potatoes.
AZ	1,524	781	745	1,521	768	753	1	37—Cane for sugar, pineapples, papayas, green-
UT	561	131	430	580	136	444		house.
NV	229	76	153	252	80	172		
Pac.	17,990	12,201	5,790	19,552	13,331	6,221	583	
WA	2,857	1,941	916	2,933	1,903	1,030	171	18—Wheat, dairy prod., cattle, apples.
OR	1,600	1,033	567	1,792	1,166	626	76	30—Cattle, wheat, dairy prod., greenhouse.
CA	12,882	8,769	4,213	14,185	9,714	4,471	335	1—Dairy prod., cattle, cotton, grapes.
AK	22	15	7	25	18	7	-	50—Greenhouse, dairy prod., hay, potatoes.
HI	529	443	87	617	530	87	1	37—Cane for sugar, pineapples, papayas, green-

- Represents zero.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1984*.

No. 1151. COMMODITY CREDIT CORPORATION (C.C.C.) LOANS—NUMBER OF FARMS RECEIVING LOANS AND VALUE OF LOANS: 1982

[Total and data by size of loan receipts include abnormal farms (see footnote 2, table 1129)]

AMOUNT OF C.C.C. LOANS RECEIVED AND TYPE OF ORGANIZATION	FARMS RECEIVING C.C.C. LOANS		VALUE OF C.C.C. LOANS		SIZE OF FARM AND VALUE OF FARM SALES	FARMS RECEIVING C.C.C. LOANS		VALUE OF C.C.C. LOANS	
	Num- ber	Percent distribu- tion	Amount (mil. dol.)	Percent distribu- tion		Num- ber	Percent distribu- tion	Amount (mil. dol.)	Percent distribu- tion
Total	188,765	100.0	6,611	100.0	Under 50 acres	3,283	1.7	24	.4
Farms with loan receipts—					50–179 acres	23,129	12.3	203	3.1
\$1–\$499	7,124	3.8	2	(2)	180–499 acres	65,121	34.5	1,314	19.8
\$500–\$999	5,089	2.7	4	(2)	500–999 acres	51,383	27.2	1,869	28.3
\$1,000–\$4,999	27,693	14.7	77	1.2	1,000 acres and over	45,834	24.3	3,200	48.4
\$5,000–\$9,999	25,754	13.6	188	2.8	Less than \$2,500	1,139	.6	1	(2)
\$10,000–\$19,999	36,813	19.5	526	8.0	\$2,500–\$4,999	2,192	1.2	4	.1
\$20,000 or more	86,292	45.7	5,814	88.0	\$5,000–\$9,999	5,997	3.2	21	.3
Individual or family	155,252	82.3	4,648	70.3	\$10,000–\$19,999	14,037	7.4	91	1.4
Partnership	23,527	12.5	1,055	16.0	\$20,000–\$39,999	28,577	15.1	336	5.1
Corporation	9,458	5.0	887	13.4	\$40,000–\$99,999	63,111	33.4	1,425	21.6
Family held	9,042	4.8	844	12.8	\$100,000–\$249,999	52,837	28.0	2,388	36.1
Other	416	.2	44	.6	\$250,000–\$499,999	15,492	8.3	1,393	21.1
Other	513	.2	20	.3	\$500,000 and over	5,368	2.8	952	14.4

Z Less than .05 percent.

Source: U.S. Bureau of the Census, 1982, *Census of Agriculture*: vol. 1.

No. 1152. COMMODITY CREDIT CORPORATION—SUMMARY: 1970 TO 1984

[In millions of dollars. Through 1976, as of or for years ending June 30; beginning 1977, as of or for years ending Sept. 30. The Commodity Credit Corporation is a wholly government-owned corporation. Its purpose is stabilizing, supporting, and protecting farm income and prices; assisting in maintenance of balanced adequate supplies of agricultural commodities; and facilitating orderly distribution of agricultural commodities. See also *Historical Statistics, Colonial Times to 1970*, series K 330–343]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
LOAN ACTIVITY ¹												
Loans made	2,388	1,256	852	1,131	3,621	6,385	4,576	4,228	5,849	11,454	13,710	5,131
Loans repaid	1,830	1,947	939	677	1,167	4,444	4,048	4,148	5,741	4,629	9,373	10,581
Loans cancelled by acquisition of collateral	1,073	1,252	100	348	23	145	318	115	3,405	363	860	1,032
Loans outstanding ²	2,952	720	335	637	3,245	5,030	5,210	5,119	5,193	11,633	15,084	8,571
Wheat	576	10	4	24	1,814	1,318	816	837	1,871	3,321	4,162	3,414
Corn	632	115	39	61	239	1,280	1,301	1,817	629	4,210	5,274	1,236
Cotton	170	34	143	24	13	153	80	35	76	714	960	87
Tobacco	845	250	119	353	652	751	903	815	764	867	1,738	2,064
Sorghum	52	4	1	3	106	278	70	79	96	721	838	520
Storage facilities, equipment ³	164	271	199	157	236	799	1,324	1,470	1,403	1,210	1,008	716
COMMODITY INVENTORY OPERATIONS												
Acquisitions, value ^{2 4}	1,518	402	835	657	997	911	1,007	2,759	2,507	2,988	8,634	8,741
Purchases	398	400	735	307	974	781	677	2,643	2,503	2,593	7,644	7,676
Collateral acquired from loans	1,120	2	100	350	23	150	330	116	4	375	990	1,065
Wheat	217	130	4	14	72	135	40	601	28	27	1,600	1,993
Corn	49	6	2	5	2	31	195	418	21	179	3,132	2,591
Cotton	304	(2)	(2)	(2)	(2)	(2)	(2)	1	(2)	(2)	175	1,056
Dairy products	253	55	480	115	721	445	247	1,252	1,891	2,262	2,716	1,883
Butter	146	16	65	2	240	154	75	326	528	56	610	360
Cheese	7	3	92	9	168	51	17	443	768	874	1,173	892
Dried milk	100	36	323	104	313	240	155	493	695	843	928	731
Wheat flour and products	109	177	123	80	89	112	148	124	161	117	97	94
Vegetable oil products	28	67	44	(2)	24	50	117	136	161	89	79	141
Commodities owned, value ²	1,858	114	416	659	985	1,029	1,162	2,737	3,727	5,103	10,227	7,358
Wheat	405	194	2	(2)	23	119	118	705	679	679	1,533	1,510
Corn	293	11	(2)	1	(2)	27	209	596	555	709	3,392	1,045
Cotton	225	1	(2)	—	(2)	(2)	(2)	1	1	2	174	74
Sorghum	173	2	(2)	(2)	(2)	28	92	93	79	91	520	290
Dairy products	134	25	290	259	703	751	570	1,266	2,396	3,442	4,219	4,102
Butter	97	11	41	—	186	240	188	385	709	781	898	857
Cheese	—	—	10	1	93	55	4	309	888	1,395	1,874	1,683
Dried milk	37	14	239	258	424	456	378	572	799	1,266	1,646	1,562

— Represents zero. Z Less than \$500,000. ¹ Covers commodity loans and storage facility and equipment loans. The latter were not available after July 1982. ² Includes amounts for commodities not shown separately. ³ Loans for purchase, construction, or installation of storage and drying equipment. ⁴ For 1970, includes purchases for commodity export program. ⁵ Includes \$25 million in butter oil in 1983 and \$14 million in 1984.

Source: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual.

**No. 1153. COMMODITY CREDIT CORPORATION—VOLUME OF PRICE-SUPPORT COMMODITIES OWNED
AND OUTSTANDING UNDER LOAN: 1975 TO 1984**

[As of December 31. For explanation of program, see headnote, table 1152]

COMMODITY	Unit	COMMODITIES OWNED					COMMODITIES OUTSTANDING UNDER LOAN				
		1975	1980	1982	1983	1984	1975	1980	1982	1983	1984
Dairy products:											
Butter and butter oil.....	Mill. lb.....	3	331	503	578	401	(x)	(x)	(x)	(x)	(x)
Cheese.....	Mill. lb.....	5	244	945	1,097	918	(x)	(x)	(x)	(x)	(x)
Nonfat dry milk.....	Mill. lb.....	442	707	1,377	1,718	1,489	(x)	(x)	(x)	(x)	(x)
Rice.....	Mill. cwt.....	(2)	1.7	17.6	23.7	25.2	8.9	20.5	53.7	45.0	44.9
Wheat.....	Mill. bu.....	(2)	203	185	376	418	32	366	1,121	1,107	911
Corn.....	Mill. bu.....	(2)	254	429	1,230	296	110	966	2,400	1,450	1,056
Sorghum grain.....	Mill. bu.....	(x)	44	47	189	106	6	24	402	254	221
Soybeans.....	Mill. bu.....	(x)	(2)	14	23	9	(2)	72	358	81	178
Cotton ¹	1,000 bales.....	(2)	2	81	1,315	152	333	651	5,623	3,134	641
Tobacco.....	Mill. lb.....	(x)	(x)	(x)	(x)	(x)	335	678	609	1,028	1,243

X Not applicable. Z Less than half the unit of measure shown. ¹ Upland and extra long staple.

Source: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual. Also in *Agricultural Statistics*, annual.

**No. 1154. COMMODITY CREDIT CORPORATION—REALIZED LOSSES ON PRICE SUPPORT AND RELATED
PROGRAMS: 1970 TO 1984**

[In millions of dollars. The realized loss or cost for these programs is reimbursed to C.C.C. by congressional appropriations and does not include reimbursements under Public Law 480 (Food for Peace), National Wool Act, or Export Credit Sales Programs. See also headnote, table 1152. Minus sign (-) indicates net loss]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Total net realized loss.....	-4,213	-2,759	-710	-525	-824	-3,056	-3,300	-2,296	-3,531	-5,723	-19,513	-8,518
Net realized loss, program.....	-3,822	-2,512	-881	-451	-747	-2,711	-2,637	-1,544	-2,760	-3,355	-17,643	-7,104
Producer payments ¹	-2,945	-2,351	-560	-288	-594	-2,152	-1,928	-418	-1,030	-1,491	-4,734	-4,553
Diversion payments ²	-1,014	-2,351	-5	-	-	-189	-78	-56	-	-	-1,332	-913
Deficiency payments ³	-	-	-	-129	-1,438	-1,023	-80	-	-1,184	-3,286	-3,639	-
Disaster payments ⁴	-	-	-555	-286	-465	-525	-366	-257	-1,030	-306	-115	-1
Net loss on commodity inventory operations.....	-398	-71	-114	-162	-108	-296	-333	-479	-926	-1,377	-2,562	-2,791
Net loss on sales.....	-2	+173	+87	+20	+1	-131	-114	-70	-203	-483	-581	-504
Proceeds from commodity sales ⁵	+880	+728	+450	+330	+581	+661	+667	+962	+902	+562	+1,619	+9,521
Cost of sales.....	-882	-555	-383	-310	-580	-792	-781	-1,032	-1,105	-1,045	-2,200	-10,115
Cost of commodities donated.....	-185	-211	-168	-147	-60	-103	-119	-184	-432	-572	-1,402	-1,599
Other expenses ⁶	-211	-33	-33	-35	-49	-62	-100	-225	-291	-322	-579	-508
Payment-in-kind program.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	-9,424	-302
Grain reserve storage expense ⁷	-144	-17	(2)	-	-1	-86	-262	-237	-87	-454	-1,113	-278
Emergency Feed program payments.....	-	-	-	-	-	-169	-70	-23	-329	-16	-	(2)
Loan and other charge offs.....	-25	-5	-1	-1	-45	-10	-23	-51	-22	-18	-56	-15
Other costs and recoveries.....	-110	-68	-6	(2)	+1	+2	-1	-336	-366	+11	+246	+745
Net interest expense ⁸	-535	-183	+43	+1	+2	-240	-562	-596	-605	-2,066	-1,523	-1,034
Net operating and other expense.....	-56	-84	-72	-75	-79	-105	-101	-156	-166	-302	-347	-390

- Represents zero. X Not applicable. Z Less than \$500,000.

¹ Includes activity for prior year programs, not shown separately. For 1970, includes price support payments. ² Payments are made to producers of feed grains, upland cotton, wheat, and rice who voluntarily diverted additional acreage from crop production to approved conservation uses or elected to divert wheat acreage for grazing or hay, but only if the Secretary of Agriculture determined that such payments were necessary to meet desirable acreage goals. ³ Payments are made to producers of wheat, feed grains, upland cotton, and rice when the target price for the commodities exceeds the national weighted average market price or the loan rate, whichever is higher. ⁴ Payments are made to producers of wheat, feed grains, cotton, and rice in the event a crop cannot be planted, or if the quantity harvested is substantially less than the expected production because of drought, flood, or other natural disaster, or other conditions beyond the producers' control. ⁵ Includes the value of exported commodities charged to P.L. 480, Title II. ⁶ Covers storage, handling and transportation expenses. ⁷ Payments to producers for storage of grain under the farmer-owned grain reserve program. Under the reserve program, a farmer contracts with the government to store grain for a three-year period and receives a nonrecourse loan and annual storage payments. The Federal Government has generally extended reserve loans beyond three years rather than have farmers choose not to repay loans and give grain to the government. Grain in the reserve cannot be sold, except with a financial penalty, until the market price reaches a trigger release price, at which time storage payments cease and farmers can repay loans without financial penalty. Interest is charged only for the first year. For 1970-1975, includes resale loan storage expense. ⁸ Interest expense minus interest income.

Source: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual.

**No. 1155. COMMODITY CREDIT CORPORATION—NET REALIZED LOSSES ON PRICE SUPPORT AND
RELATED PROGRAMS, BY SELECTED COMMODITIES: 1975 TO 1984**

[In millions of dollars. See headnote, table 1154. Minus sign (—) indicates net loss]

YEAR AND ITEM	FEED GRAINS				Wheat ²	Cotton, upland	DAIRY PRODUCTS		Rice ²	Oils and oil-seeds
	Total ¹	Corn ²	Sor- ghum ²	Barley			Total ¹	Milk		
1975.....	-314	-238	-64	-15	-56	-127	-164	-44	-5	-3
1980.....	-670	-514	-123	-28	-91	-103	-315	-172	-2	-128
1981.....	-572	-433	-102	-34	-514	-305	-785	-312	-252	-19
1982.....	-849	-455	-329	-65	-891	-565	-1,136	-317	-29	-14
1983.....	-8,486	-7,461	-856	-155	-4,166	-2,233	-1,750	-481	-901	-13
1984, total.....	-1,934	-1,607	-216	-107	-2,436	-570	-1,620	-709	-383	+26
Producer payments ³	-1,667	-1,451	-138	-77	-1,728	-487	-336	-	-336	-
Diversion payments ⁴	-39	-51	+12	-4	-536	-2	-336	-	+2	-
Deficiency payments ⁵	-1,628	-1,400	-150	-73	-1,189	-484	-	-	-338	-
Disaster payments ⁶	-	-	-	-	-1	-1	-	-	-	-
Net loss on commodity inventory operations.....	-284	-238	-36	-7	-193	2	-2,101	-709	-32	32
Cost of sales and commodities donated.....	-5,502	-4,992	-516	-1	-2,092	-1,139	-2,160	-776	-378	-89
Sales proceeds ⁷	5,446	4,928	516	-	1,997	1,141	215	113	361	125
Other expenses ⁸	-228	-184	-36	-6	-98	-	-156	-46	-15	-5
Grain reserve storage expense ⁹	-119	-56	-40	-23	-159	-	-	-	-	-
Loan and other charge offs.....	-	-	-	-	-	-	-	-	-	-6
Other costs and recoveries.....	-15	-15	-	-	-3	1	¹⁰ 817	-	-1	-
Payment-in-kind program.....	151	153	-2	-	-353	-86	-	-	-14	-

- Represents zero. ¹ Includes other commodities, not shown separately. ² Includes products. ³ See footnote 1, table 1154. ⁴ See footnote 2, table 1154. ⁵ See footnote 3, table 1154. ⁶ See footnote 4, table 1154. ⁷ See footnote 5, table 1154. ⁸ See footnote 6, table 1154. ⁹ See footnote 7, table 1154. ¹⁰ Represents net milk marketing fees collected.

Source: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual.

No. 1156. FARMER MARKETING AND FARM SUPPLY COOPERATIVES—SUMMARY: 1970 TO 1983

[1970-1977, for fiscal years of cooperatives ending between July 1 of preceding year and June 30 of year shown. Beginning 1978, reports of cooperatives are for the calendar year. Memberships and businesses are estimated. Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. See also *Historical Statistics, Colonial Times to 1970*, series K 195-203]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983, prel.	
Cooperatives listed.....	7,790	7,645	7,535	6,736	6,600	6,445	6,293	6,211	6,125	5,989	
Marketing ¹	5,015	4,916	4,804	4,143	4,050	3,938	3,924	3,855	3,826	3,781	
Farm supply.....	2,775	2,729	2,731	2,593	2,550	2,507	2,369	2,356	2,299	2,208	
Memberships ² (1,000).....	6,355	6,123	5,906	5,758	5,695	5,627	5,379	5,335	5,136	4,955	
Marketing ¹ (1,000).....	3,133	3,151	2,850	2,692	2,632	2,567	2,574	2,479	2,469	2,402	
Farm supply (1,000).....	3,222	2,972	3,056	3,066	3,063	3,060	2,804	2,856	2,666	2,553	
Business ³ (mil. dol.).....	19,080	41,342	40,104	43,584	47,305	56,268	66,254	71,534	69,150	66,755	
Marketing ¹ (mil. dol.).....	15,207	32,682	30,692	33,027	36,253	42,747	50,120	54,475	52,788	50,812	
Farm supply (mil. dol.).....	3,873	8,660	9,412	10,557	11,052	13,521	16,134	17,059	16,362	15,943	
SELECTED PRODUCTS OR SUPPLIES	COOPERATIVES HANDLING					BUSINESS ³ (mil. dol.)					
	1970	1980	1981	1982	1983, prel.	1970	1975	1980	1981	1982	1983, prel.
Products marketed:											
Grain, soybeans.....	2,539	2,434	2,410	2,362	2,275	3,006	12,744	17,790	19,777	18,234	16,218
Dairy products.....	971	487	470	451	418	5,126	8,376	13,666	15,052	15,776	16,766
Fruits and vegetables.....	499	400	388	384	394	1,776	2,730	4,209	4,496	4,501	4,241
Livestock and livestock products.....	546	449	435	429	402	2,154	2,614	5,637	5,196	5,194	4,768
Sugar products.....	66	45	41	48	47	634	2,065	1,712	1,925	1,519	1,683
Cotton and cotton products.....	554	470	480	476	487	434	935	1,860	2,099	1,733	1,722
Supplies purchased:											
Feed.....	4,214	3,613	3,603	3,553	3,295	1,279	2,587	3,544	3,531	3,341	3,594
Fertilizer.....	4,284	3,802	3,789	3,732	3,442	657	1,913	3,454	3,676	3,407	2,937
Petroleum products.....	2,774	2,921	2,911	2,871	2,742	864	1,675	5,069	5,646	5,502	5,434
Farm chemicals.....	3,721	3,697	3,684	3,627	3,407	165	502	1,048	1,275	1,336	1,250
Seed.....	4,007	3,820	3,607	3,550	3,318	142	337	495	575	555	483

¹ Includes cooperatives whose major activity is providing services related to marketing and farm-supply activities. ² Excludes nonvolving patrons. ³ Value of commodities sold or purchased for patrons. Business dollar volume for marketing includes service receipts for charges related to marketing and purchasing. Represents net volume after eliminating intercooperative business.

Source: U.S. Dept. of Agriculture, Agricultural Cooperative Service, *Farmer Cooperative Statistics*, annual.

**NO. 1157. CIVILIAN CONSUMER EXPENDITURES FOR FARM FOODS—FARM VALUE AND MARKETING
BILL: 1960 TO 1984**

[In billions of dollars, except percent. Excludes imported and nonfarm foods, such as coffee and seafood, as well as food consumed by the military, or exported. See *Historical Statistics, Colonial Times to 1970*, series K 358-360 for data before revisions]

ITEM	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984
Consumer expenditures, total	66.9	81.1	110.6	167.0	216.9	245.2	264.4	287.7	298.9	315.0	332.2
Farm value, total.....	22.3	27.1	35.5	55.6	69.5	79.2	81.7	83.2	83.7	84.9	89.5
Marketing bill, total ¹	44.6	54.0	75.1	111.4	147.4	166.1	182.7	204.5	215.2	230.1	242.7
Percent of total consumer expenditures.....	66.7	66.6	67.9	66.7	68.0	67.7	69.1	71.1	72.0	73.0	73.0
At-home expenditures ²	50.0	60.5	78.0	116.2	150.2	169.4	180.1	194.0	196.8	204.6	213.5
Farm value.....	18.7	22.6	29.1	44.0	56.4	64.5	66.2	67.0	68.8	67.5	71.2
Marketing bill ¹	31.3	37.9	48.9	72.2	93.9	104.9	113.9	127.0	128.9	137.1	142.3
Percent of at-home expenditures.....	62.6	62.6	62.8	62.1	62.5	61.9	63.2	65.5	66.0	67.0	66.7
Away-from-home expenditures	16.9	20.6	32.6	50.8	66.7	75.8	84.3	93.7	102.2	110.4	118.7
Farm value.....	3.7	4.5	6.4	11.6	13.1	14.7	15.5	16.3	16.9	17.4	18.3
Marketing bill ¹	13.2	16.1	26.2	39.2	53.6	61.1	68.8	77.5	85.3	93.0	100.4
Percent of away-from-home expenditures.....	78.1	78.2	80.5	77.2	80.4	80.6	81.6	82.7	83.5	84.2	84.8
Marketing bill cost components:											
Labor cost ³	19.7	23.3	32.2	48.3	66.2	75.2	81.5	91.0	96.6	102.5	106.0
Packaging materials.....	5.4	6.2	8.2	13.3	16.6	18.6	21.0	22.8	23.2	24.4	26.7
Rail and truck transport ⁴	4.1	4.2	5.2	8.4	10.5	11.8	13.0	14.3	14.7	15.5	15.9
Corporate profits before taxes.....	2.1	3.0	3.6	7.1	9.2	9.9	10.8	12.0	13.0	14.8	16.2
Fuels and electricity.....	13.3	17.3	23.7	29.7	38.6	42.6	46.4	52.8	55.5	60.2	63.0
Other ⁵	15.1	16.8	29.7	40.9	56.8	64.5	69.8	76.9	77.6	81.7	88.2
Processing.....	5.5	6.6	8.7	13.5	17.1	19.0	20.7	23.9	25.1	27.8	29.7
Wholesaling.....	4.1	4.3	5.2	8.4	10.5	11.8	13.0	14.3	14.7	15.5	16.4
Transportation.....	19.9	26.3	31.5	48.6	63.0	70.8	79.2	90.2	97.8	105.3	110.4
Retailing and food service.....											
SELECTED FOOD COMMODITY GROUPS											
Beef: Total expenditures	10.0	13.0	19.9	28.6	42.8	48.2	49.8	52.4	54.0	56.3	
Farm value.....	5.0	6.2	9.5	12.8	19.1	22.2	21.8	21.3	21.0	21.0	
Percent of total.....	50.0	47.7	47.4	44.8	44.6	46.1	43.8	40.6	38.9	37.3	
Marketing bill ¹	5.0	6.8	10.4	15.8	23.6	26.0	28.0	31.1	33.0	35.3	
Pork: Total expenditures	7.2	8.0	12.4	16.8	23.3	28.2	29.0	31.3	32.3	35.3	
Farm value.....	2.7	3.5	4.3	7.3	8.1	8.4	8.2	9.1	9.8	9.6	
Percent of total.....	37.5	43.8	34.7	43.4	34.8	29.8	28.3	29.1	30.3	27.2	
Marketing bill ¹	4.5	4.5	8.1	9.5	15.2	19.8	20.8	22.2	22.6	25.7	
Poultry and eggs:											
Total expenditures.....	5.2	6.2	9.1	12.7	15.2	17.4	18.3	19.9	20.3	21.7	
Farm value.....	2.9	3.1	4.0	6.3	7.3	8.1	8.3	8.8	8.5	9.2	
Percent of total.....	55.9	49.5	44.0	49.6	48.1	46.6	45.4	44.2	41.9	42.4	
Marketing bill ¹	2.3	3.1	5.1	6.4	7.9	9.3	10.0	11.1	11.8	12.5	
Fluid milk and cream:											
Total expenditures.....	7.0	7.4	8.9	11.4	11.8	14.7	14.1	14.8	13.8	14.4	
Farm value.....	2.8	3.0	3.9	5.3	5.8	6.6	7.1	7.1	6.8	6.7	
Percent of total.....	39.4	40.5	43.8	46.5	48.9	44.9	50.4	48.0	49.3	46.5	
Marketing bill ¹	4.3	4.4	5.0	6.1	6.0	8.1	7.0	7.7	7.1	7.7	
Other dairy products:											
Total expenditures.....	5.0	5.6	7.8	12.0	18.4	18.8	23.7	26.7	28.2	30.8	(NA)
Farm value.....	1.9	2.1	3.0	4.7	6.9	8.0	9.0	9.9	9.9	10.5	
Percent of total.....	38.0	37.5	38.5	39.2	37.5	42.6	38.0	37.0	35.1	34.3	
Marketing bill ¹	3.1	3.5	4.8	7.3	11.4	10.8	14.7	16.8	18.3	20.1	
Fresh fruit, vegetables:											
Total expenditures.....	7.5	8.7	11.0	15.4	21.9	24.6	25.4	28.0	29.6	30.2	
Farm value.....	2.3	2.7	3.1	5.0	5.6	6.0	6.7	7.6	7.6	7.0	
Percent of total.....	30.7	31.0	28.2	32.7	24.2	24.4	26.4	27.1	25.7	23.2	
Marketing bill ¹	5.2	6.0	7.9	10.4	16.3	18.6	18.7	20.4	21.9	23.2	
Processed fruits and vegetables:											
Total expenditures.....	7.3	9.1	11.6	18.2	23.7	26.6	28.3	32.3	34.3	36.3	
Farm value.....	1.2	1.8	2.0	3.5	4.5	4.9	4.9	5.7	6.2	6.0	
Percent of total.....	16.4	19.8	17.2	19.2	18.8	18.4	17.3	17.6	18.1	16.5	
Marketing bill ¹	6.0	7.3	9.6	14.7	19.3	21.7	23.4	26.6	28.1	30.3	
Bakery, grain mill products:											
Total expenditures.....	9.4	11.2	13.6	24.2	27.5	31.6	35.2	37.9	39.7	40.2	
Farm value.....	1.4	1.9	2.0	4.2	3.8	4.8	5.1	5.0	4.8	4.9	
Percent of total.....	14.5	16.7	14.7	17.4	13.8	15.2	14.5	13.1	12.1	12.2	
Marketing bill ¹	8.0	9.4	11.6	20.0	23.7	26.8	30.1	32.9	34.9	35.3	

NA Not available. ¹ The difference between civilian expenditures for domestic farm-originated food products and the farm value or payment farmers received for the equivalent farm products. ² Food primarily purchased from retail food stores for use at home. ³ Covers employee wages and salaries, and their health and welfare benefits. Also includes imputed earnings of proprietors, partners, and family workers not receiving stated remuneration. ⁴ Excludes local hauling. ⁵ Represents advertising, rents, depreciation, interest on borrowed capital, taxes other than income, and other costs.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review, 1984*, AER No. 537, July 1985; *Food Consumption, Prices, and Expenditures, 1963-1983*, SB-713, November 1984; *Agricultural Outlook*, periodic; and *Agricultural Statistics*, annual.

NO. 1158. SELECTED INDEXES OF FARM INPUTS: 1960 TO 1984

[1977=100. Inputs based on physical quantities of resources used in production. See *Historical Statistics, Colonial Times to 1970*, series K 486-495 for data before revisions]

INPUT	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984 ¹
Total	98	96	97	96	102	105	103	102	99	95	96
Farm labor.....	206	156	126	107	96	93	92	90	87	79	80
Farm real estate ²	103	103	105	97	100	103	103	103	103	101	99
Mechanical power and machinery.....	83	80	85	96	104	104	101	98	94	89	88
Agricultural chemicals ³	32	49	75	83	107	123	123	129	118	105	120
Feed, seed, and livestock purchases ⁴	77	86	96	93	108	115	114	108	106	106	106
Taxes and interest.....	95	101	102	100	99	103	100	99	99	99	95
Miscellaneous.....	77	85	89	82	103	113	96	108	114	110	122

¹ Preliminary.² Includes service buildings, improvements.³ Includes fertilizer, lime, and pesticides.⁴ Includes nonfarm portion.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in U.S. Council of Economic Advisors, *Economic Report of the President*, annual.

NO. 1159. FARM MACHINERY AND EQUIPMENT: 1960 TO 1984

[See also *Historical Statistics, Colonial Times to 1970*, series K 184-191]

ITEM	Unit	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
Value of farm implements and machinery¹	Bill. dol.	22.2	26.0	34.4	64.0	77.0	85.1	96.8	102.5	108.8	108.8	105.8	99.4
Number on farms, Jan. 1:²													
Tractors ³	1,000.....	4,688	4,787	4,619	4,469	4,402	5,050	4,776	4,752	4,726	4,697	4,669	4,671
Horsepower.....	153	176	203	222	232	264	301	304	304	306	306	309	311
Motortrucks.....	1,000.....	2,834	3,030	2,984	3,032	3,044	3,450	3,358	3,344	3,350	3,389	3,435	3,402
Grain combines.....	1,000.....	1,042	910	780	524	535	680	655	652	650	647	644	644
Corn pickers ⁴	1,000.....	792	690	635	615	605	695	706	701	698	690	684	684
Pickup balers.....	1,000.....	680	751	708	667	615	770	744	756	770	785	800	800
Field forage harvesters.....	1,000.....	291	316	304	255	270	302	295	293	291	288	285	285
Farmers' expenditures:													
Motor vehicles ⁵	Mill. dol.....	1,344	1,940	2,030	3,833	4,927	5,580	6,284	5,813	5,652	4,755	4,885	4,739
Machinery, equipment.....	Mill. dol.....	1,458	2,239	2,688	4,820	5,657	7,158	8,002	6,956	6,481	5,104	4,823	4,751
Retail sales:⁶													
Tractors, total ⁷	1,000.....	(NA)	162.5	135.5	161.1	130.9	139.6	139.0	119.3	103.8	77.2	71.9	66.7
2-wheel drive.....	1,000.....	(NA)	162.5	135.5	150.5	123.2	130.9	127.5	108.4	94.1	70.4	66.2	62.7
4-wheel drive.....	1,000.....	(NA)	(NA)	(NA)	10.6	7.7	8.7	11.5	10.9	9.7	6.8	5.1	4.0
Combines.....	1,000.....	(NA)	37.6	26.7	33.1	28.8	31.5	32.3	25.7	26.8	16.2	12.8	11.4
Corn heads.....	1,000.....	(NA)	22.9	18.5	25.4	20.7	21.2	22.4	17.2	15.7	9.3	6.8	6.4
Field forage harvesters.....	1,000.....	(NA)	(NA)	15.0	13.1	13.2	11.5	12.5	9.5	7.6	5.1	4.1	3.5

NA Not available. ¹ Farm inventory valuations as of December 31. Includes family automobiles. ² 1978 data are not directly comparable with totals for 1974 or earlier agriculture census years; see text, p. 632. For all non-census years, data are estimated using prior census as reference point. ³ Excludes garden tractors. ⁴ Includes picker-shellers. ⁵ For farm business use. ⁶ Source: Farm and Industrial Equipment Institute, Chicago, IL, unpublished data. ⁷ Beginning 1977, covers tractors over 40 hp. only.

Source: Except as noted, U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual. Also in *Agricultural Statistics*, annual.

NO. 1160. AGRICULTURAL CHEMICALS USED ON FARMS: 1978 AND 1982

TYPE OF CHEMICAL	1978			1982		
	Farms reporting (1,000)	Acres treated (1,000)	Cost (mil. dol.)	Farms reporting (1,000)	Acres treated (1,000)	Cost (mil. dol.)
Total	1,804	(x)	9,220	1,596	(x)	11,972
Commercial fertilizer.....	1,628	226,346	6,331	1,444	224,635	7,689
Lime.....	336	16,494		270	11,607	(NA)
Chemicals for—defoliation or growth control of crops.....	82	9,267		74	9,322	
Sprays, dusts, etc. for—						
Insects on hay and other crops.....	584	75,868	2,890	530	72,848	4,282
Nematodes on crops.....	104	8,805		77	7,533	
Crop diseases.....	129	11,415		128	11,685	
Weeds or grass in crops and pasture.....	960	164,617		872	176,871	

X Not applicable.

¹ If more than 1 subentry was applicable, the farm was tabulated in each.² Excludes cost of lime.

Source: U.S. Bureau of the Census, *1982 Census of Agriculture*, vol. 1.

No. 1161. COMMERCIAL FERTILIZERS CONSUMED: 1960 TO 1984

[In millions of tons, except percent. For years ending June 30. Includes Puerto Rico. Percent nutrient content excludes secondary and micronutrients. See *Historical Statistics, Colonial Times to 1970*, series K 193, for related but not comparable data]

ITEM	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
All fertilizers.....	24.9	31.8	39.6	42.5	51.6	47.5	51.5	52.8	54.0	48.7	41.8	50.2
Percent: Nitrogen.....	11.7	15.3	19.5	21.2	21.7	21.8	21.7	22.6	23.0	23.4	21.8	22.2
Phosphoric oxide.....	10.9	11.6	11.9	11.1	11.5	11.2	11.4	10.8	10.5	10.3	9.9	9.8
Potash.....	9.2	9.4	10.5	11.0	11.9	12.1	12.7	12.4	12.2	12.0	11.6	11.6
Mixed fertilizers.....	15.7	18.6	21.0	20.6	24.0	22.1	23.7	23.3	23.5	20.9	18.4	21.2
Percent: Nitrogen.....	6.5	7.8	9.3	10.2	10.6	10.7	10.8	10.8	11.0	11.2	11.5	11.6
Phosphoric oxide.....	13.0	15.2	17.7	18.0	19.9	19.6	20.1	19.6	20.1	20.4	20.0	20.6
Potash.....	12.1	12.4	12.7	12.5	12.8	12.8	12.8	13.1	12.8	12.4	12.3	12.2
Primary nutrient materials.....	7.9	11.8	17.3	20.0	25.0	23.5	25.6	27.2	28.2	26.1	21.9	27.0
Secondary and micronutrients.....	1.4	1.5	1.3	1.9	2.5	1.9	2.1	2.3	2.2	1.8	1.6	2.0

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Commercial Fertilizers, Consumption in the United States*, annual.

No. 1162. HIRED FARMWORKERS—WORKERS AND EARNINGS: 1970 TO 1983

[Represents persons 14 years old and over in the civilian noninstitutional population who did hired farmwork at any time during the year. Based on Current Population Survey; see text, pp. 1 and 2 and Appendix III. For composition of regions, see fig. 1, inside front cover. For definition of median, see Guide to Tabular Presentation]

CHARACTERISTIC	WORKERS (1,000)									MEDIAN EARNINGS PER DAY			
	1970	1975	1981	1983						1970	1975	1981	1983
				Total	Duration of farmwork								
					Under 25 days	25-74 days	75-149 days	150-249 days	250 days and over				
All workers.....	2,488	2,638	2,492	2,595	973	491	397	386	349	\$9.30	\$14.80	\$23.83	\$25.52
White ¹	1,940	1,907	1,824	1,888	816	362	230	235	246	9.70	14.75	21.79	24.18
Black and other ¹	547	446	340	376	90	72	85	80	49	8.00	13.90	23.92	27.58
Hispanic.....	(NA)	285	328	331	66	57	83	70	55	(NA)	17.10	29.45	34.84
Northeast.....	241	227	204	191	58	36	40	26	31	9.95	14.00	20.13	21.89
Midwest.....	590	674	688	687	343	124	63	88	69	9.20	14.45	23.68	20.47
South.....	1,093	1,074	1,004	995	378	182	159	132	144	8.35	14.10	20.76	25.17
West.....	564	664	595	722	193	148	135	140	106	11.75	18.00	29.90	32.58
Migratory.....	196	188	115	226	36	52	62	49	29	(NA)	(NA)	(NA)	(NA)
Nonmigratory.....	2,291	2,450	2,377	2,369	937	439	335	337	320	(NA)	(NA)	(NA)	(NA)
14-17 years old.....	819	835	605	487	262	139	53	27	6	(NA)	10.35	17.03	18.07
18-24 years old.....	539	733	760	794	343	152	139	88	72	(NA)	17.75	24.83	24.06
25-34 years old.....	322	393	498	580	174	92	89	121	104	(NA)	21.95	27.48	30.01
35-44 years old.....	254	219	236	289	67	47	44	53	77	(NA)	21.70	27.30	35.81
45-54 years old.....	247	193	180	197	40	18	50	48	41	(NA)	19.40	24.49	30.15
55-64 years old.....	173	144	104	168	47	23	21	42	35	(NA)	19.60	25.44	30.23
65 years and over.....	133	120	108	80	40	21	-	6	13	(NA)	11.70	24.76	23.92

- Represents zero. NA Not available. ¹ Beginning 1975, excludes persons of Hispanic origin. 1970 data not comparable with later years.

Source: U.S. Dept. of Agriculture, Economic Research Service, *The Hired Farm Working Force*, periodic.

No. 1163. FARM LABOR—ANNUAL AVERAGE LABOR-HOURS PER UNIT OF PRODUCTION, SELECTED CROPS AND LIVESTOCK: 1960-1964 TO 1979-1983

[See also *Historical Statistics, Colonial Times to 1970*, series K 445-485]

CROP	1960-1964	1970-1974	1979-1983	CROP AND LIVESTOCK	1960-1964	1970-1974	1979-1983
Corn for grain: Hours per acre ¹	7.0	4.3	3.3	Tobacco: Hours per acre ²	493	288	232
Yield per acre (bu.).....	62.2	84.0	102.0	Yield per acre (1,000 lb.).....	1.9	2.0	2.0
Hours per 100 bushel.....	11	5	3	Hours per 100 lb.....	26	14	12
Wheat: Hours per acre ¹	3.0	2.9	2.6	Milk cows: Hours per cow.....	93	62	33
Yield per acre (bu.).....	25.2	31.0	35.3	Milk per cow (cwt).....	75	101	121
Hours per 100 bushel.....	12	9	7	Hours per cwt of milk.....	1.2	.6	.3
Hay: Hours per acre ¹	5.0	3.7	3.2	Cattle, exc. milk cows:			
Yield per acre (sh. tons).....	1.77	2.12	2.37	Hours per cwt of beef produced ³	2.6	1.7	1.1
Hours per sh. ton.....	2.8	1.8	1.3	Hogs: Hours per cwt produced ³	1.9	1.0	.3
Potatoes: Hours per acre ¹	48.0	41.6	34.7	Chickens: 4 Hours per 100 layers.....	126	78	51
Yield per acre (cwt).....	195	234	270	Rate of lay ⁴	212	225	249
Hours per sh. ton.....	5	4	3	Hours per 100 eggs produced.....	.6	.3	.2
Cotton: Hours per acre ¹	47	18	6	Broilers: Hours per 100 birds.....	.8	.1	.4
Yield per acre (lb.).....	475	470	515	Hours per cwt produced ³.....	.8	.3	.1
Hours per bale.....	47	18	6	Turkeys: Hours per cwt produced ³	2.4	.8	.3

¹ Labor-hours per acre harvested, including pre-harvest work on acreages abandoned, grazed, and turned under. ² Per acre planted and harvested. ³ Liveweight production. ⁴ Laying flocks and eggs. ⁵ Eggs produced during year divided by average number of hens and pullets of laying age on hand during year.

Source: U.S. Dept. of Agriculture, Economic Research Service, In *Agricultural Statistics*, annual.

**No. 1164. FARM PRODUCTIVITY—LABOR-HOURS AND INDEXES OF FARM OUTPUT PER HOUR:
1960 TO 1984**

[See also *Historical Statistics, Colonial Times to 1970*, series K 407-413, K 430-444, and W 67-81]

ITEM	1960	1965	1970	1975	1976	1978	1979	1980	1981	1982	1983	1984, prel.
Hours of labor required on farms ¹ (bil.)	9.8	7.3	5.9	5.0	4.8	4.4	4.3	4.3	4.2	4.0	3.7	3.7
All productive livestock (bil.)	3.8	3.0	2.3	1.7	1.6	1.4	1.3	1.3	1.2	1.1	1.1	1.0
All crops ² (bil.)	4.6	3.4	2.8	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.1	2.2
Farm maintenance ³ (bil.)	1.4	.9	.8	.7	.6	.6	.6	.6	.6	.5	.5	.5
INDEX (1977 = 100)												
Farm output per hour	37	52	66	89	94	108	119	112	131	133	120	139
All livestock and products	32	45	64	85	93	109	117	129	136	143	154	162
Meat animals	40	51	67	87	94	108	117	127	136	138	147	153
Milk cows	27	39	57	81	91	109	122	135	148	164	187	212
Poultry	25	40	55	81	94	109	119	126	135	142	152	162
All crops	41	56	70	89	91	105	118	104	120	126	105	124
Feed grains	33	52	62	90	95	111	125	107	132	136	96	132
Hay and forage	43	60	74	94	90	109	115	109	120	129	123	132
Food grains	73	79	93	101	98	104	115	116	127	130	131	140
Vegetables	69	79	91	93	100	104	109	113	117	118	117	116
Fruits and nuts	61	76	84	97	101	103	104	112	108	114	113	117
Sugar crops	52	58	79	97	100	103	103	104	111	108	109	109
Cotton	13	23	31	57	70	100	132	103	145	149	138	170
Tobacco	46	51	79	97	101	109	99	104	117	122	104	127
Oil crops	52	59	72	88	84	98	110	89	110	115	94	109
Cropland used for crops ⁴	94	89	88	97	98	97	100	101	102	101	88	99
Crop production per acre	77	85	88	96	94	105	113	100	114	117	100	111

¹ Represents labor used on crops, livestock, and farm maintenance.

² Beginning 1965, excludes work on farm gardens.

³ Beginning 1965, excludes work on horses and mules.

⁴ Harvested acreages plus acreages of crop failure and summer fallow.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in *Agricultural Statistics*, annual.

No. 1165. FARM OUTPUT INDEXES AND ACREAGE OF PRINCIPAL CROPS: 1960 TO 1984

[See also *Historical Statistics, Colonial Times to 1970*, series K 414-429]

ITEM	1960	1965	1970	1975	1976	1978	1979	1980	1981	1982	1983	1984, prel.
INDEX (1977 = 100)												
Farm output ¹	76	82	84	95	97	104	111	103	118	116	95	111
Per unit of total input	77	86	87	99	98	102	105	100	116	117	100	116
Gross production:												
Livestock and products ²	82	89	99	95	99	101	104	108	109	107	109	107
Meat animals	80	87	102	97	100	100	103	107	106	101	103	101
Dairy products	95	99	95	94	98	99	101	105	108	110	114	110
Poultry and eggs	68	81	93	92	98	106	114	115	119	119	120	123
Crops ³	72	76	77	93	92	102	113	101	116	118	88	110
Feed grains	69	70	71	91	95	108	116	97	121	124	67	115
Hay and forage	83	91	92	100	94	106	108	98	106	110	101	107
Food grains	66	67	69	108	107	93	108	121	144	140	117	129
Vegetables	88	94	96	97	99	103	107	104	109	113	105	116
Fruits and nuts	69	74	81	98	96	99	105	119	111	111	107	111
Sugar crops	60	80	95	114	112	101	94	97	107	96	96	95
Cotton	102	107	72	58	74	76	102	79	109	85	54	90
Tobacco	102	97	100	114	112	106	80	93	108	104	74	90
Oil crops	38	53	66	86	74	105	129	99	114	124	89	106
ACREAGE, PRINCIPAL CROPS (millions of acres)												
Planted or grown	324	298	293	336	337	338	348	352	366	362	306	348
Harvested	317	292	289	330	330	330	340	342	351	347	294	337

¹ Annual production available for eventual human use.

² Includes livestock products not shown separately and excludes

horses and mules. ³ Includes crops not shown separately.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in *Agricultural Statistics*, annual.

NO. 1166. AGRICULTURAL EXPORTS AND IMPORTS—VALUE: 1960 TO 1984

[In billions of dollars, except percent. Includes Puerto Rico. Excludes forest products and distilled liquors; includes crude rubber and similar gums (now mainly plantation products). Includes shipments under foreign aid programs. See also *Historical Statistics, Colonial Times to 1970*, series K 251-255]

YEAR OR PERIOD	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports	YEAR OR PERIOD	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports
1960-1984, avg.	1.5	5.4	24	3.9	24	1974	11.7	21.9	23	10.2	10
1965-1969, avg.	1.7	6.3	20	4.6	16	1975	12.6	21.9	21	9.3	10
1970-1974, avg.	5.5	12.8	21	7.3	12	1976	12.0	23.0	20	11.0	9
1975-1979, avg.	13.5	26.5	20	13.0	11	1977	10.2	23.6	20	13.4	8
1980-1984, avg.	21.9	39.0	18	17.1	8	1978	14.6	29.4	21	14.8	9
1960	1.0	4.8	24	3.8	25	1979	18.0	34.7	19	16.7	7
1965	2.1	6.2	23	4.1	19	1980	23.8	41.2	19	17.4	6
1970	1.5	7.3	17	5.8	15	1981	26.5	43.3	19	16.8	6
1971	1.9	7.7	18	5.8	13	1982	21.2	36.6	18	15.4	6
1972	2.9	9.4	19	6.5	12	1983	19.6	36.1	18	16.5	6
1973	9.3	17.7	25	8.4	12	1984	18.5	37.8	18	19.3	6

Source: U.S. Dept. of Agriculture, Economic Research Service, *U.S. Foreign Agricultural Trade Statistical Report*, annual, and *Foreign Agricultural Trade of the United States*, Jan.-Feb. issues. Also in *Agricultural Statistics*, annual.

NO. 1167. AGRICULTURAL EXPORTS—VALUE, BY PRINCIPAL COMMODITIES AND SELECTED COUNTRIES OF DESTINATION: 1970 TO 1984

[See headnote, table 1166. Data by country of destination not adjusted for transshipments prior to 1982]

COMMODITY AND COUNTRY	VALUE (mil. dol.)								PERCENT		
	1970	1975	1979	1980	1981	1982	1983	1984	1970	1980	1984
Total agricultural exports ¹	7,259	21,859	34,749	41,233	43,339	36,627	36,099	37,826	100.0	100.0	100.0
Grains and feeds ²	2,720	11,392	15,244	19,117	20,456	15,687	16,250	17,163	37.5	46.4	45.4
Feed grains and products	1,093	5,283	7,796	9,831	9,494	6,527	7,351	8,204	15.1	23.6	21.7
Corn	818	4,422	6,977	8,492	7,935	5,582	6,367	6,999	11.3	20.6	18.5
Wheat and products	1,136	5,353	5,586	6,680	8,150	6,928	6,560	6,740	15.6	16.2	17.8
Rice	313	858	854	1,289	1,527	997	926	845	4.3	3.1	2.2
Oilseeds and products ²	1,931	4,452	8,887	9,393	9,555	9,141	8,716	8,392	26.6	22.8	22.2
Soybeans	1,228	2,865	5,701	5,880	6,186	6,218	5,913	5,419	16.9	14.3	14.3
Soybean oil cake and meal	344	639	1,416	1,665	1,589	1,411	1,527	1,019	4.7	4.0	2.7
Vegetable oils and waxes	295	635	1,155	1,216	1,077	952	888	1,270	4.1	2.9	3.4
Soybean oil	194	269	769	689	474	486	424	757	2.7	1.7	2.0
Animals and animal products ²	865	1,686	3,765	3,768	4,239	3,935	3,707	4,228	11.9	9.1	11.2
Hides and skins, incl. furskins	187	407	1,332	1,046	1,024	1,022	1,017	1,383	2.6	2.5	3.7
Cattle hides	130	260	906	623	617	704	742	1,086	1.8	1.5	2.9
Meats and meat products	132	432	853	890	997	978	916	928	1.8	2.2	2.5
Fats, oils, and greases	246	360	740	769	760	683	600	698	3.4	1.9	1.8
Poultry and poultry products	82	157	409	603	770	515	428	415	1.1	1.5	1.1
Cotton, excluding linters	372	991	2,198	2,864	2,260	1,955	1,817	2,441	5.1	6.9	6.5
Tobacco, unmanufactured	517	882	1,183	1,334	1,457	1,547	1,622	1,511	7.1	3.2	4.0
Fruits and preparations	334	689	1,127	1,335	1,497	1,376	1,349	1,243	4.6	3.2	3.3
Fresh fruits	154	404	646	739	855	796	829	758	2.3	1.8	2.0
Vegetables and preparations	219	505	764	1,188	1,553	1,174	980	1,002	3.0	2.9	2.6
Nuts and preparations	69	169	584	757	581	541	496	604	1.0	1.8	1.6
Other	232	573	997	1,477	1,741	1,271	1,242	1,242	3.2	3.6	3.3
Asia ¹	2,670	7,620	12,109	14,886	15,777	13,674	14,058	14,907	36.8	36.1	39.4
Japan	1,214	3,082	5,255	6,111	6,562	5,555	6,281	6,792	16.7	14.8	17.9
Korea, Rep. of	224	830	1,441	1,797	2,008	1,581	1,840	1,650	3.1	4.4	4.4
China: Mainland	(2)	80	890	2,210	1,956	1,505	1,444	613	(2)	5.4	1.6
Taiwan	134	565	1,074	1,095	1,145	1,155	1,308	1,458	1.8	2.7	3.9
Western Europe ^{1,3}	2,532	7,164	9,912	11,744	11,905	11,463	9,999	8,638	34.9	28.5	23.4
European Economic Community ⁴	2,133	5,704	7,849	9,236	9,059	8,397	7,374	6,529	29.4	22.4	17.3
Netherlands	526	1,722	2,624	3,412	3,301	3,085	2,576	2,323	7.2	8.3	6.1
Germany, Fed. Rep. of	529	1,584	1,399	1,831	1,759	1,448	1,529	1,055	7.3	4.4	2.8
United Kingdom	411	588	1,057	928	960	915	823	754	5.7	2.3	2.0
Italy	210	798	1,005	1,094	1,181	989	731	806	2.9	2.7	2.1
France	164	406	726	748	824	625	485	507	2.3	1.8	1.3
Spain ⁵	143	776	930	1,129	1,267	1,681	1,264	1,029	2.0	2.7	2.7
Portugal ⁶	35	261	485	608	757	578	660	698	0.5	1.5	1.8
Latin America ¹	688	2,274	3,687	6,150	6,367	4,438	5,213	5,295	9.5	14.9	14.0
Mexico	154	596	1,024	2,468	2,432	1,156	1,942	2,015	2.1	6.0	5.3
Venezuela	98	277	494	701	893	671	665	783	1.4	1.7	2.1
Soviet Union	16	1,193	2,855	1,047	1,665	1,866	1,473	2,678	0.2	2.5	7.6
Eastern Europe	189	616	1,933	2,071	1,654	847	839	757	2.3	5.0	2.0
Canada	826	1,304	1,650	1,852	1,989	1,820	1,844	1,863	11.4	4.5	5.2
Africa ¹	254	1,134	1,581	2,175	2,766	2,238	2,458	2,873	3.5	5.3	7.9
Egypt	26	425	601	770	967	803	970	909	0.4	1.9	2.4

¹ Less than \$500,000 or .05 percent. ² Includes areas not shown separately. ³ Includes commodities not shown separately. ⁴ As of Jan. 1, 1982, includes Canary Islands and Madeira Islands. For consistency, data for all years are shown on same basis. ⁵ Includes Belgium, Luxembourg, Denmark, Greece, and Ireland. As of Jan. 1, 1973, United Kingdom, Denmark, and Ireland became members of EEC. As of Jan. 1, 1981, Greece became a member of EEC. For consistency, data for all years are shown on same basis. ⁶ As of Jan. 1, 1984, includes Canary Islands. ⁷ As of Jan. 1, 1984, includes Madeira Islands.

Source: U.S. Dept. of Agriculture, Economic Research Service, *U.S. Foreign Agricultural Trade Statistical Report*, annual. Also in *Agricultural Statistics*, annual.

**NO. 1168. INDEXES OF TRADE-WEIGHTED DOLLAR EXCHANGE RATES—SELECTED COMMODITIES:
1975 TO 1984**

[April 1971=100. Nominal values are percentage changes in currency units per dollar, weighted by proportion of agricultural exports from the United States. An increase indicates that the dollar has appreciated. Real values are computed in the same way as the nominal series but are adjusted for consumer price index changes in the countries involved. Minus sign (-) indicates that the dollar has depreciated.]

YEAR	TOTAL AGRICULTURE		CORN		SOYBEANS		WHEAT		COTTON	
	Nominal	Real	Nominal	Real	Nominal	Real	Nominal	Real	Nominal	Real
1975.....	90.6	76.5	88.7	74.3	82.0	71.0	102.9	79.9	108.3	82.5
1980.....	111.0	72.2	109.0	68.6	79.3	64.3	205.0	76.4	121.0	77.4
1981.....	136.5	79.4	136.3	77.8	92.6	74.9	296.3	79.1	131.6	80.6
1982.....	186.0	86.8	188.9	86.8	111.4	83.5	488.1	85.4	143.9	86.9
1983.....	347.0	90.6	346.8	91.8	136.9	88.2	1,299.2	91.8	156.6	90.3
1984.....	784.1	97.2	752.3	98.2	159.9	95.3	3,777.7	98.7	168.0	94.7
Percent change:										
1975-1980.....	22.6	-5.6	22.8	-7.7	-3.3	-9.4	99.3	-4.4	11.7	-6.1
1980-1981.....	23.0	10.0	25.1	13.1	16.7	16.6	44.5	3.5	8.0	4.0
1981-1982.....	36.3	9.3	38.6	12.0	20.3	11.5	64.7	8.0	9.3	7.9
1982-1983.....	86.6	4.4	83.6	5.7	23.0	5.6	166.2	7.4	8.9	3.9
1983-1984.....	126.0	7.2	116.7	7.0	16.8	8.1	190.8	7.6	7.2	4.9

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Outlook*, monthly.

**NO. 1169. U.S. SALES AND DONATIONS UNDER FOOD FOR PEACE (PUBLIC LAW 480) PROGRAMS,
TOTAL, 1954 TO 1984, AND BY SELECTED COUNTRY, 1984**

[In millions of dollars. For years ending June 30, except beginning 1977, ending Sept. 30]

YEAR	Total	Title I sales (loans) ¹	TITLE II DONATIONS			COUNTRY	1984	
			Total	Voluntary relief agencies	Emergency relief and other ²		Sales	Donations
1954-1984, total.....	36,378	³ 22,489	13,889	8,505	5,384	Total ⁴	784.0	552.0
						Egypt.....	237.5	13.7
1970.....	1,142	³ 711	432	181	250	India.....	-	125.8
1975.....	1,328	868	461	266	194	Bangladesh.....	68.0	46.2
1976.....	1,228	767	461	319	143	Pakistan.....	47.5	31.5
1979.....	1,287	746	541	374	167	Morocco.....	45.0	9.8
						El Salvador.....	49.0	6.5
1980.....	1,436	843	593	340	253	Sudan.....	50.0	1.1
1981.....	1,542	774	768	471	297	Peru.....	19.0	23.9
1982.....	1,314	690	624	456	168	Indonesia.....	36.0	5.5
1983.....	1,373	773	600	422	178	Dominican Republic.....	28.5	2.8
1984.....	1,336	784	552	335	217	Somalia.....	16.0	15.1
						Sri Lanka.....	25.0	5.4

- Represents zero. ¹ Includes Title III, Food for Development program. Loans repayable in dollars, except as noted.

² Includes economic development and world food programs. ³ Includes \$9,846 million in loans repayable in foreign currencies for 1954-1984 and \$226 million for 1970. ⁴ Includes countries not shown separately.

Source: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance From International Organizations*, annual.

NO. 1170. SELECTED FARM PRODUCTS—U.S. AND WORLD PRODUCTION AND EXPORTS: 1981 TO 1983

[In metric tons, except as indicated. Production year, except as indicated. Metric ton=1.102 short tons or .984 long tons]

ITEM	Unit	AMOUNT						U.S. AS PERCENT OF WORLD		
		U.S.			World			1981	1982	1983
		1981	1982	1983	1981	1982	1983			
PRODUCTION ¹										
Wheat.....	Mill.....	76	75	66	448	479	490	17.0	15.7	13.5
Corn for grain.....	Mill.....	206	209	106	439	439	345	46.9	47.6	30.7
Soybeans.....	Mill.....	54.1	59.6	44.5	86.1	93.6	82.3	62.8	63.7	54.1
Rice, rough.....	Mill.....	8.3	7.0	4.5	413	420	452	2.0	1.7	1.0
Tobacco, unmanufactured ²	1,000.....	936	905	648	5,970	6,876	6,043	15.7	13.2	10.7
Vegetable oils.....	Mill.....	6.2	6.6	5.8	40.2	42.1	40.9	15.4	15.7	14.2
Cotton.....	Mill. bales ³	15.6	12.0	7.8	71.2	68.1	67.9	21.9	17.6	11.5
EXPORTS ⁴										
Wheat ⁵	Mill.....	48.8	39.9	38.9	101.3	98.6	102.9	48.2	40.5	37.8
Corn.....	Mill.....	50.0	47.5	47.4	67.3	63.4	60.9	74.3	74.9	77.8
Soybeans.....	Mill.....	25.3	24.6	20.2	29.3	28.6	26.1	86.3	86.0	77.4
Rice, milled basis.....	Mill.....	2.7	2.2	2.3	11.6	11.9	12.7	23.3	18.5	18.1
Tobacco, unmanufactured ⁶	1,000.....	266	281	239	1,484	1,462	1,388	17.9	17.8	17.2
Vegetable oils.....	Mill.....	1.8	1.6	1.4	12.5	13.5	13.0	12.8	11.9	10.8
Cotton.....	Mill. bales ³	6.6	5.2	6.8	20.2	19.5	19.3	32.7	26.7	35.2

¹ Production years vary by commodity. In most cases, includes harvests from July 1 of the year shown through June 30 of the following year. ² Farm sales weight basis. ³ Bales of 480 lb. net weight. ⁴ Trade years may vary by commodity.

⁵ Includes wheat flour on a grain equivalent. ⁶ Redried weight basis.

Source: U.S. Department of Agriculture, Foreign Agricultural Service, *Foreign Agricultural Commodity Circular Series*, periodic.

NO. 1171. SELECTED FARM PRODUCTS—PRODUCTION AND EXPORTS: 1970 TO 1984

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984, prel.
Corn for grain: Production.....	Mil. bu	4,152	5,841	6,505	7,288	7,928	6,639	8,119	6,235	4,175	7,656
Exports ¹	Mil. bu	517	1,711	1,948	2,133	2,433	2,355	1,967	1,870	1,865	1,950
Percent of production.....	Percent.	12.5	29.3	29.9	29.3	30.7	35.5	24.2	22.7	44.7	25.5
Soybeans, for beans: Production.....	Mil. bu	1,127	1,548	1,767	1,869	2,261	1,798	1,989	2,190	1,636	1,861
Exports ¹	Mil. bu	434	555	700	739	875	724	929	905	743	645
Percent of production.....	Percent.	38.5	35.9	39.6	39.5	38.7	40.3	46.7	41.3	45.2	34.7
Wheat: Production.....	Mil. bu	1,352	2,127	2,046	1,776	2,134	2,381	2,785	2,765	2,420	2,595
Exports ¹	Mil. bu	741	1,173	1,124	1,194	1,375	1,514	1,771	1,509	1,429	1,424
Percent of production.....	Percent.	54.8	55.2	54.9	67.2	64.4	63.6	63.6	54.6	59.0	54.9
Cotton: Production.....	Mil. bales ²	10.2	8.3	14.4	10.9	14.6	11.1	15.6	12.0	7.9	13.0
Exports ¹	Mil. bales ²	3.9	3.3	5.5	6.2	9.2	5.9	6.6	5.2	6.8	6.4
Percent of production.....	Percent.	38.2	39.8	38.2	56.9	63.0	53.2	42.3	43.3	87.2	49.2
Tobacco: ⁴ Production.....	Mil. lb	1,906	2,182	1,914	2,025	1,527	1,786	2,084	1,994	1,429	1,728
Exports ³	Mil. lb	722	668	683	718	708	632	637	615	569	625
Percent of production.....	Percent.	37.8	30.6	35.7	35.5	46.4	35.4	30.9	30.8	39.8	36.2

¹ Represents marketing year for each product. ² Based on inspections for export. ³ 480 lb. net weight bales.⁴ Farm sales weight. ⁵ Fiscal year exports.Source: U.S. Dept. of Agriculture, Economic Research Service. In *Agricultural Statistics*, annual.

NO. 1172. CROPS—ACREAGE AND VALUE, 1982 TO 1984, AND ORDER OF VALUE, 1984, BY STATE

STATE	ACREAGE HARVESTED (1,000)			FARM VALUE (mil. dol.)			Crops in order of value, 1984	
	1982	1983	1984, prel.	1982	1983	1984, prel.		
						Value		Rank
U.S. ¹	349,644	293,944	335,612	81,994	70,303	77,882	(x)	Corn, soybeans, hay, wheat.
AL.....	4,424	3,528	3,656	809	651	788	33	Soybeans, peanuts, cotton lint, hay.
AZ.....	945	678	905	821	720	799	32	Cotton lint, hay, lettuce, cottonseed.
AR.....	9,237	7,821	8,507	1,625	1,396	1,673	19	Soybeans, rice, wheat, cotton lint.
CA.....	6,185	4,839	5,739	8,137	7,142	6,952	1	Grapes, cotton lint, hay, tomatoes.
CO.....	6,194	6,084	6,686	1,017	1,165	1,150	26	Wheat, hay, corn, potatoes.
CT.....	148	142	150	66	65	52	47	Hay, tobacco, apples, sweet corn.
DE.....	582	540	539	120	140	129	45	Corn, soybeans, potatoes, wheat.
FL.....	1,396	1,208	1,332	2,194	2,432	1,924	16	Oranges, tomatoes, sugar cane ² , grapefruit.
GA.....	6,156	5,218	5,652	1,510	1,407	1,581	20	Peanuts, corn, soybeans, tobacco.
HI.....	95	99	95	384	423	^a 142	43	Sugar cane ² , pineapples, macadamia nuts, papayas.
ID.....	4,746	4,490	4,835	1,428	1,593	1,405	21	Potatoes, hay, wheat, barley.
IL.....	23,848	20,090	23,496	6,622	4,730	5,817	3	Corn, soybeans, hay, wheat.
IN.....	12,909	10,679	12,513	3,308	2,512	3,211	7	Corn, soybeans, hay, wheat.
IA.....	25,369	19,973	24,724	6,652	4,978	5,898	2	Corn, soybeans, hay, oats.
KS.....	22,690	19,345	21,353	3,201	2,739	2,919	8	Wheat, sorghum, hay, corn.
KY.....	5,853	4,980	5,674	2,084	1,208	2,039	14	Tobacco, corn, hay, soybeans.
LA.....	5,444	4,583	4,845	1,207	1,165	1,091	27	Soybeans, cotton lint, rice, sugarcane. ²
ME.....	411	394	384	138	189	152	41	Potatoes, hay, apples, oats.
MD.....	1,678	1,530	1,623	415	368	448	35	Corn, soybeans, hay, tobacco.
MA.....	162	166	169	124	141	156	40	Cranberries, hay, apples, sweet corn.
MI.....	7,410	6,220	7,730	1,788	1,733	1,688	18	Corn, hay, soybeans, dry edible beans.
MN.....	21,558	17,610	20,759	4,564	3,660	4,235	4	Corn, soybeans, hay, wheat.
MS.....	6,779	5,568	6,291	1,388	1,059	1,296	22	Soybeans, cotton lint, wheat, rice.
MO.....	14,416	12,773	14,514	2,344	1,861	2,132	13	Soybeans, hay, corn, wheat.
MT.....	9,656	8,709	9,183	1,131	1,005	842	31	Wheat, hay, barley, sugar beets.
NE.....	18,806	15,079	18,564	3,733	2,933	3,559	6	Corn, hay, soybeans, wheat.
NV.....	585	594	596	132	152	130	44	Hay, potatoes, barley, wheat.
NH.....	112	112	112	25	28	29	48	Hay, apples.
NJ.....	524	455	472	220	192	206	39	Corn, hay, soybeans, peaches.
NM.....	1,356	1,137	1,302	308	334	369	36	Hay, sorghum, wheat, cotton lint.
NY.....	4,206	3,904	4,041	1,017	1,059	1,012	28	Hay, corn, apples, potatoes.
NC.....	5,725	4,692	5,398	2,272	1,839	2,235	12	Tobacco, corn, soybeans, peanuts.
ND.....	21,753	18,432	20,975	2,363	2,010	2,242	11	Wheat, sunflower, barley, hay.
OH.....	10,865	9,081	10,808	2,600	2,243	2,707	9	Corn, soybeans, hay, wheat.
OK.....	10,244	7,479	8,677	1,261	972	1,150	25	Wheat, hay, peanuts, cotton lint.
OR.....	2,741	2,668	2,720	916	968	916	29	Wheat, hay, potatoes, onions.
PA.....	4,610	4,316	4,546	1,214	1,190	1,179	23	Hay, corn, mushrooms, apples.
RI.....	18	18	17	6	7	6	49	Potatoes, hay, apples.
SC.....	3,333	2,609	2,912	791	592	736	34	Tobacco, soybeans, corn, peaches.
SD.....	16,003	13,558	16,270	1,614	1,459	1,786	17	Corn, wheat, hay, soybeans.
TN.....	5,693	4,963	5,406	1,144	820	1,159	24	Tobacco, soybeans, corn, hay.
TX.....	22,680	17,350	20,036	3,754	3,520	4,068	5	Cotton lint, sorghum, hay, wheat.
UT.....	1,154	1,070	1,109	238	266	249	37	Hay, barley, wheat, potatoes.
VT.....	538	539	537	86	89	85	46	Hay, apples, potatoes.
VA.....	3,184	2,913	3,116	829	834	801	30	Tobacco, corn, hay, soybeans.
WA.....	4,847	4,843	4,769	1,747	1,992	1,987	15	Wheat, apples, potatoes, hay.
WV.....	774	766	769	112	106	143	42	Hay, apples, corn, tobacco.
WI.....	9,635	8,458	9,404	2,307	2,155	2,306	10	Corn, hay, potatoes, oats.
WY.....	1,863	1,835	1,904	248	261	242	38	Hay, barley, wheat, sugar beets.

X Not applicable. ¹ Excludes Alaska. ² For sugar and seed. ³ Incomplete data.Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Crop Production and Crop Values*; both annual.

NO. 1173. ACREAGES OF CROPS HARVESTED FOR SPECIFIED PURPOSES: 1960 TO 1984

[See also *Historical Statistics, Colonial Times to 1970*, series K 496-499]

ITEM	Unit	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984 ¹
Crops harvested ²	Mil. acres.....	³ 324	298	293	336	345	338	349	352	366	363	306	348
Domestic use.....	Mil. acres.....	255	222	221	236	233	224	224	215	237	250	182	237
Per capita ⁴	Acres.....	1.41	1.14	1.08	1.09	1.06	1.00	1.00	.94	1.03	1.08	.78	1.00
Exports.....	Mil. acres.....	64	76	72	100	112	114	125	137	129	113	124	111
Percent of total.....	Percent.....	19.8	25.5	24.6	29.8	32.5	33.7	35.8	38.9	35.2	31.1	40.5	31.9
Crop failure.....	Mil. acres.....	6	6	5	6	9	7	7	12	6	7	5	6

¹ Preliminary. ² Area in principal crops harvested as reported by Economic Research Service plus acreage in vegetables, fruits, tree nuts, and farm gardens. ³ Includes feed for horses and mules, not shown separately. ⁴ Based on Bureau of the Census estimated total population, including Armed Forces overseas, as of July 1.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual.

NO. 1174. PRODUCTION COSTS AND RETURNS FOR SELECTED CROPS: 1982 TO 1984

[In dollars per planted acre]

ITEM	CORN			SOYBEANS			WHEAT		
	1982	1983	1984	1982	1983	1984	1982	1983	1984
Total cash receipts.....	243.83	252.90	271.09	180.64	204.46	166.93	114.69	132.97	123.95
Total cash expenses.....	207.18	198.55	213.38	105.43	111.42	118.51	85.34	91.18	95.87
Variable expenses ¹	129.74	124.78	134.11	58.92	57.24	60.05	52.88	53.56	55.11
Fixed expenses ²	77.44	73.77	79.27	46.51	54.18	58.46	32.46	37.60	40.76
Receipts less cash expenses.....	36.45	54.35	57.71	55.21	93.04	50.42	29.35	41.81	28.08
Capital replacement.....	33.25	33.56	36.38	23.16	24.50	25.48	19.41	21.02	21.67
Receipts less cash expenses and capital replacement.....	3.20	20.79	21.33	32.05	68.54	24.94	9.94	20.79	6.41

¹ Includes expenses for seed, fertilizer, lime, chemicals, custom operations, fuel and lubrication, repairs, drying, purchased irrigation water, and management fees. ² Includes taxes and insurance, general overhead, and interest paid on land and non-land capital.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Costs of Production*, 1984.

NO. 1175. PRICE SUPPORT OPERATIONS—SELECTED COMMODITIES: 1980 TO 1984

[For explanation of price support operations, see text, p. 632]

CROP AND YEAR	Support or target price (dol. per bu)	National average loan rate (dol. per bu)	QUANTITY UNDER SUPPORT ¹		CROP AND YEAR	Support or target price	National average loan rate	QUANTITY UNDER SUPPORT ¹	
			Amount (mil. bu)	Percent of production				Amount	Percent of production
Corn: ²					Cotton: ⁹				
1980.....	³ 2.35	⁵ 2.25	840	13	1980.....	58.4	48.0	1,000 bales ¹⁰	21
1982.....	³ 2.70	⁵ 2.55	1,580	19	1982.....	71.0	57.1	5,007	42
1983.....	³ 2.86	⁵ 2.85	162	4	1983.....	76.0	55.0	1,744	22
1984.....	3.03	2.55	⁶ 1,071	14	1984.....	81.0	55.0	⁸ 2,949	23
Soybeans: ⁷					Sorghum: ⁸				
1980.....	(x)	5.02	137	7	1980.....	¹¹ 4.46	¹³ 3.82	Mil cwt.	5
1982.....	(x)	5.02	393	18	1982.....	4.64	¹² 4.32	135	29
1983.....	(x)	5.02	101	6	1983.....	4.86	4.50	8	3
1984.....	(x)	5.02	⁶ 276	15	1984.....	5.14	4.32	⁸ 36	7
Wheat: ⁸					Rice: ⁹				
1980.....	3.63	3.00	331	14	1980.....	9.49	7.12	25	17
1982.....	4.05	3.55	646	23	1982.....	10.85	8.14	65	42
1983.....	4.30	3.65	635	26	1983.....	11.40	8.14	40	40
1984.....	4.38	3.30	⁶ 281	11	1984.....	11.90	8.00	⁸ 58	42

X Not applicable. ¹ Represents loans made, purchases, and purchase agreements entered into. ² For years beginning October 1. ³ Guaranteed on normal production from participating farms. ⁴ Target price was \$2.05 if producer was not in compliance with his normal crop acreage. ⁵ National average loan rate for corn put into farmer-owned reserve was \$2.40 per bushel in 1980 and \$2.90 in 1982. ⁶ Preliminary. ⁷ For years beginning September 1. ⁸ For years beginning June 1. ⁹ For years beginning August 1. ¹⁰ Bales of 480 lb. net weight. ¹¹ Target price was \$4.38 per cwt. if producer was not in compliance with his normal crop acreage. ¹² National average loan rate for grain sorghum put into the farmer-owned reserve was \$4.07 per cwt. in 1980 and \$4.91 in 1982. ¹³ National average loan rate for grain sorghum put into the farmer-owned reserve was \$4.07 per cwt. in 1980 and \$4.91 in 1982.

Source: U.S. Dept. of Agriculture, Agricultural Stabilization and Conservation Service. Data published in *Agricultural Statistics*, annual.

No. 1176. PRINCIPAL CROPS—PRODUCTION, SUPPLY AND DISAPPEARANCE: 1980 TO 1984

[Marketing year beginning May 1 for hay, June 1 for wheat and barley, August 1 for cotton and rice, September 1 for soybeans, October 1 for corn and sorghum. Acreage, production, and yield of all crops periodically revised on basis of census data. See also *Historical Statistics, Colonial Times to 1970*, series K506-503]

CROP AND YEAR	Acreage harvested (mil.)	Yield per acre	Production	Farm price ¹	Farm value ² (mil. dol.)	SUPPLY AND DISAPPEARANCE					
						Total supply ³	Disappearance			Ending stocks	
							Total	Feed and residual	Other domestic		
											Exports
Corn for grain:											
1980.....	73.0	Bu. 91.0	Mil. bu. 6,639	\$/bu. 3.11	20,554	8,258	7,223	4,133	735	2,355	1,034
1981.....	74.5	106.9	8,119	2.50	20,200	9,154	6,980	4,202	811	1,967	2,174
1982.....	72.7	113.2	8,235	2.68	22,039	10,410	7,290	4,522	898	1,870	2,120
1983.....	51.5	81.1	4,175	3.25	13,537	7,297	6,574	3,736	973	1,865	723
1984.....	71.8	106.6	7,656	2.69	20,544	8,382	7,150	4,150	1,050	1,950	1,222
Soybeans for beans:											
1980.....	67.8	Bu. 26.5	Mil. bu. 1,798	\$/bu. 7.57	13,601	2,156	1,843	4.99	1,020	724	313
1981.....	66.2	30.1	1,989	6.04	12,005	2,302	2,048	4.89	1,030	959	254
1982.....	69.4	31.5	2,190	5.69	12,463	2,444	2,099	4.86	1,108	905	345
1983.....	62.5	26.2	1,636	7.81	12,775	1,981	1,805	4.79	983	743	176
1984.....	66.1	28.2	1,861	6.13	11,402	2,037	1,752	4.82	1,025	645	285
Hay:											
1980.....	58.9	Sh. tons 2.22	Mil. Sh. tons 131	\$/ton. \$71.00	8,085	164.3	138.9	(NA)	(NA)	(NA)	25.4
1981.....	59.6	2.39	143	\$73.30	9,181	167.9	142.9	(NA)	(NA)	(NA)	25.0
1982.....	59.9	2.50	149	\$68.30	9,530	174.2	146.1	(NA)	(NA)	(NA)	28.1
1983.....	57.7	2.35	141	\$75.60	8,971	168.9	148.8	(NA)	(NA)	(NA)	20.1
1984.....	61.6	2.45	151	\$75.50	10,705	170.9	144.0	(NA)	(NA)	(NA)	26.9
Wheat:											
1980.....	71.1	Bu. 33.5	Mil. bu. 2,381	\$/bu. 3.91	9,303	3,286	2,297	60	723	1,514	989
1981.....	80.6	34.5	2,795	3.66	10,172	3,777	2,618	135	712	1,771	1,159
1982.....	77.9	35.5	2,765	3.55	9,813	3,932	2,417	195	713	1,509	1,515
1983.....	61.4	39.4	2,420	3.53	8,533	3,939	2,540	376	735	1,429	1,399
1984.....	66.9	38.8	2,595	3.37	8,735	4,002	2,578	419	735	1,424	1,424
Cotton:											
1980.....	13.2	Lb. 404	Mil. bales ⁴ 711.1	¢/lb. 74.7	3,987	14,150	11,817	1,000 bales ⁵	5,891	5,926	2,333
1981.....	13.9	542	715.6	54.3	4,075	18,340	11,831	(X)	5,264	6,567	6,509
1982.....	9.7	590	712.0	59.4	3,410	18,615	10,720	(X)	5,513	7,895	7,895
1983.....	7.3	508	717.8	66.4	2,478	15,720	12,712	(X)	5,926	6,786	6,786
1984.....	10.4	600	713.0	58.7	3,658	15,762	11,045	(X)	4,985	6,060	4,737

Tobacco:^a									
1980	9	Lb.	Mil. lb.	\$/lb.				Mil. lb.	
1981	10	1,999	1,786	1.52	2,720	5,051	1,761	1,111	650
1982	9	2,113	2,084	1.71	3,520	5,323	1,752	1,065	697
1983	8	1,811	1,994	1.76	3,519	5,497	1,663	1,035	628
1984	8	2,180	1,429	1.75	2,496	5,343	1,534	937	597
			1,728	1.81	3,122	5,502	1,581	919	662
Sorghum for grain:									
1980	12.5	Bu.	Mil. bu.	\$/bu.					
1981	13.7	46.3	579	2.94	1,697	726	617	11	305
1982	14.1	64.0	876	2.38	2,079	984	688	428	249
1983	10.0	59.1	835	2.52	2,091	1,131	731	507	214
1984	15.3	48.7	888	2.84	1,382	888	637	381	246
		56.4	866	2.37	2,039	1,117	820	525	275
Barley:									
1980	7.3	Bu.	Mil. bu.	\$/bu.					
1981	9.0	361	361	2.84	1,017	563	426	174	77
1982	9.0	52.4	474	2.44	1,154	621	473	186	100
1983	9.7	57.2	516	2.22	1,143	711	511	246	148
1984	11.2	53.4	509	2.30	1,339	753	544	282	171
			597	2.26	1,347	736	548	300	171
Rice, rough:									
1980	3.3	Lb.	Mil. cwt.	\$/cwt.					
1981	3.8	4,413	146	12.80	1,873	172	156	10	91
1982	3.3	4,819	183	9.05	1,654	200	151	9	60
1983	3.3	4,710	154	8.11	1,247	203	132	9	82
1984	2.2	4,598	100	8.76	874	172	125	6	69
	2.8	4,926	137	8.11	1,111	185	121	5	71

NA Not available. X Not applicable. ¹ Season average price received by farmers. State prices weighted by sales to obtain U.S. price. For certain years, prices for corn, soybeans, wheat, cotton, sorghum, rice, and barley included an allowance for unrefined loans and purchase agreement deliveries. ² Values are based on season average prices; see footnote 1. ³ Comprises production, imports and beginning stocks. ⁴ Includes seed. ⁵ State production figures, which conform with U.S. Bureau of the Census figures, are for hay sold baled. ⁶ Bales of 480 pounds, net weight. ⁷ State production figures, which conform with U.S. Bureau of the Census figures, are for hay sold baled. ⁸ Flue-cured and cigar wrapper, crop year July-June; all other types October-September. Farm-sales-weight basis.

Source: Production—U.S. Dept. of Agriculture, Statistical Reporting Service. In *Crop Production*, annual. *Field Crops* (Statistical Bulletin number 708). *Crop Values* (Statistical Bulletin number 729). Supply and disappearance—U.S. Dept. of Agriculture, Economic Research Service, *Feed Situation*, quarterly; *Fats and Oils Situation*, quarterly; *Tobacco Situation*, quarterly; *Cotton and Wool Outlook Statistics*, periodic; and *Agricultural Supply and Demand Estimates*, periodic. All data are also in *Agricultural Statistics*, annual; and *Agricultural Outlook*, monthly.

NO. 1177. CORN FOR GRAIN—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1982 TO 1984

[See *Historical Statistics, Colonial Times to 1970*, series K 502-505, for U.S. data on corn for all purposes]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.) ¹			PRODUCTION (mil. bu.) ¹			PRICE ² (dol. per bu.)			FARM VALUE ² (mil. dol.)		
	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984
Total	72,719	51,483	71,816	113	81	107	8,235	4,175	7,856	2.68	3.25	2.69	22,039	13,537	20,544
AL.....	380	305	385	66	59	65	25	18	25	2.70	3.55	2.95	68	64	74
CA.....	330	260	375	130	128	136	43	33	51	3.42	4.05	3.40	147	134	173
CO.....	790	610	680	129	122	134	102	74	91	2.78	3.17	2.70	283	236	246
DE.....	177	145	150	102	75	110	18	11	17	2.56	3.76	3.00	46	41	50
FL.....	210	122	210	66	67	65	14	8	14	2.45	3.80	3.05	34	31	42
GA.....	815	735	985	85	75	82	69	55	81	2.62	3.64	3.15	182	201	254
IL.....	11,440	7,900	10,940	131	79	114	1,499	624	1,247	2.66	3.26	2.70	3,986	2,035	3,367
IN.....	6,270	4,670	6,030	126	73	117	790	341	706	2.47	3.30	2.65	1,951	1,125	1,870
IA.....	13,150	8,550	12,900	120	87	112	1,578	744	1,445	2.75	3.11	2.55	4,340	2,313	3,684
KS.....	1,220	920	870	114	93	125	139	86	109	2.76	3.25	2.90	384	278	315
KY.....	1,490	960	1,480	103	48	100	153	46	146	2.57	3.54	2.85	394	163	416
MD.....	840	545	590	103	68	118	66	37	70	2.60	3.75	3.00	171	138	209
MI.....	2,740	1,800	2,620	107	92	84	293	165	220	2.65	3.20	2.70	748	530	594
MN.....	6,500	4,370	6,440	113	64	107	735	367	689	2.63	3.05	2.55	1,932	1,120	1,757
MO.....	1,970	1,430	1,930	101	51	80	199	73	154	2.73	3.40	2.70	543	248	417
NE.....	6,800	4,850	6,950	110	97	115	748	470	799	2.85	3.12	2.70	2,132	1,468	2,158
NY.....	765	600	660	92	90	93	70	54	61	3.00	3.52	2.85	211	190	175
NC.....	1,570	1,280	1,620	99	60	90	155	77	146	2.37	3.67	2.85	368	282	416
ND.....	520	435	630	68	67	66	35	29	42	2.69	3.02	2.55	95	88	106
OH.....	4,000	2,800	3,900	114	80	118	456	224	460	2.56	3.29	2.60	1,167	737	1,197
PA.....	1,300	1,050	1,350	97	69	110	126	72	149	2.73	3.75	2.95	344	272	438
SC.....	380	275	447	88	62	78	33	17	35	2.73	3.50	2.85	91	60	99
SD.....	2,690	1,970	2,780	72	53	67	194	104	186	2.50	3.03	2.45	484	316	456
TN.....	630	480	690	90	48	95	57	23	66	2.67	3.65	2.95	151	84	193
TX.....	1,140	1,080	1,550	105	97	93	120	105	144	3.09	3.39	3.05	370	355	440
VA.....	620	340	540	101	48	104	63	16	56	2.55	3.70	2.95	160	60	166
WI.....	3,350	2,300	3,250	108	97	106	362	223	345	2.74	3.15	2.65	991	703	913
Other.....	832	701	884	112	111	115	93	78	102	(X)	(X)	(X)	266	265	319

X Not applicable. ¹ 56 pounds per bushel. ² Season average price received by farmers. State prices weighted by sales to obtain U.S. prices. Includes an allowance for loans outstanding and purchases by the government valued at the average loan and purchase rate, by State.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Crop Production*, annual; and *Crop Values*, annual.

NO. 1178. SOYBEANS FOR BEANS—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1982 TO 1984

[See *Historical Statistics, Colonial Times to 1970*, series K 521, for U.S. totals]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.)			PRODUCTION (mil. bu.)			PRICE ¹ (dol. per bu.)			FARM VALUE ¹ (mil. dol.)		
	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984
Total	69,442	62,525	66,093	31.5	26.2	28.2	2,190	1,636	1,861	5.69	7.81	6.13	12,463	12,775	11,402
AL.....	2,000	1,500	1,370	25.0	20.0	21.0	50	30	29	5.36	7.80	6.20	268	234	178
AR.....	4,400	3,800	3,900	24.0	18.5	26.0	106	70	101	5.71	7.87	6.25	603	553	634
GA.....	2,350	2,000	2,000	27.0	21.0	20.0	63	42	40	5.45	7.59	6.10	346	319	244
IL.....	9,200	9,050	9,000	38.5	29.5	32.0	354	267	289	5.89	7.94	6.25	2,086	2,120	1,804
IN.....	4,500	3,950	4,350	36.5	31.0	34.5	173	122	150	5.51	7.96	6.15	955	975	923
IA.....	8,400	7,960	8,400	36.5	35.0	31.5	307	279	265	5.82	7.75	6.05	1,784	2,159	1,601
KS.....	1,780	1,520	1,620	26.0	16.0	17.5	46	24	28	5.57	7.79	6.00	258	189	170
KY.....	1,630	1,440	1,460	31.5	17.0	28.0	51	24	42	5.74	7.79	6.30	295	191	267
LA.....	2,900	2,620	2,380	26.0	26.0	27.0	75	68	64	5.65	7.77	6.20	426	529	396
MI.....	1,140	1,040	1,190	31.0	32.5	27.0	35	34	32	5.46	7.82	6.20	193	264	199
MN.....	4,830	4,600	5,240	35.0	33.0	33.0	169	152	173	5.81	7.84	6.05	982	1,160	1,046
MS.....	3,550	3,100	3,200	26.0	19.0	24.0	92	59	77	5.74	7.85	6.30	530	462	484
MO.....	5,700	5,150	5,300	30.0	20.0	20.5	171	103	109	5.61	7.84	6.15	959	808	668
NE.....	2,250	2,070	2,550	35.0	28.5	25.0	79	59	64	5.50	7.54	5.95	433	451	379
NC.....	2,100	1,650	1,790	25.0	20.0	26.0	53	33	47	5.58	7.89	6.05	293	260	282
OH.....	3,700	3,280	3,770	36.0	32.0	36.5	133	105	138	5.68	7.91	6.15	757	830	846
SC.....	1,800	1,430	1,490	22.0	16.5	20.0	40	24	30	5.75	7.79	6.10	228	184	182
TN.....	2,300	1,970	1,850	26.5	16.0	26.0	61	32	48	5.57	7.96	6.00	339	251	289
TX.....	820	420	410	25.0	22.5	29.0	23	9	12	5.40	7.43	5.65	124	70	67
VA.....	665	610	730	29.0	16.0	29.5	19	10	22	5.70	7.85	6.15	110	77	132

¹ Includes allowance for loans outstanding and purchases by the government valued at the average loan and purchase rate, by State. ² Includes States not shown separately.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Crop Production*, annual; and *Crop Values*, annual.

No. 1179. WHEAT—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1982 TO 1984

[See Historical Statistics, Colonial Times to 1970, series K 506-508, for U.S. acreage, production, and price]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bushels) ²			PRODUCTION (mil. bushels) ²			PRICE ³ (dol. per bu.)			FARM VALUE ³ (mil. dol.)		
	1982	1983	1984 ¹	1982	1983	1984 ¹	1982	1983	1984 ¹	1982	1983	1984 ¹	1982	1983	1984 ¹
Total ⁴	77,937	61,390	66,928	36	39	39	2,765	2,420	2,595	3.55	3.53	3.37	9,813	8,533	8,735
AR.....	1,900	1,500	1,400	38	39	44	72.2	58.5	61.6	3.23	3.31	3.30	233	194	203
CA.....	1,075	680	784	72	69	79	77.2	46.6	61.8	3.76	4.04	3.65	290	188	226
CO.....	2,958	3,063	3,270	29	40	35	85.0	122.1	115.3	3.47	3.28	3.15	295	400	364
GA.....	1,370	910	890	33	34	35	45.2	30.9	31.2	3.05	3.24	3.20	138	100	100
ID.....	1,510	1,305	1,280	63	70	64	94.8	91.7	81.4	3.77	3.46	3.25	357	318	265
IL.....	1,500	1,400	1,600	45	46	44	67.5	64.4	70.4	3.11	3.36	3.25	210	216	229
IN.....	1,030	970	1,050	42	51	46	43.3	49.5	48.3	3.14	3.33	3.25	136	165	157
KS.....	13,100	10,800	11,200	35	42	39	458.5	448.2	431.2	3.56	3.46	3.38	1,632	1,551	1,445
MI.....	560	730	800	41	49	57	23.0	35.8	45.6	3.33	3.40	3.20	76	122	146
MN.....	3,184	2,140	2,553	40	37	47	126.8	79.0	120.7	3.75	3.82	3.44	475	301	415
MO.....	2,200	1,850	2,050	34	38	41	74.8	70.3	84.1	2.99	3.39	3.25	224	238	273
MT.....	5,380	4,455	4,640	34	31	23	160.3	136.9	104.7	3.85	3.67	3.49	658	503	365
NE.....	2,900	2,300	2,250	35	43	36	101.5	98.9	81.0	3.45	3.39	3.30	350	355	267
ND.....	10,300	7,205	8,660	32	27	33	324.8	194.1	284.2	3.69	3.76	3.51	1,199	731	997
OH.....	1,200	1,200	1,100	43	49	44	51.6	58.8	48.4	3.16	3.38	3.30	163	199	160
OK.....	6,900	4,300	5,300	33	35	36	227.7	150.5	190.8	3.65	3.51	3.35	831	528	639
OR.....	1,200	1,085	1,115	53	60	62	63.5	65.6	68.9	4.02	3.69	3.40	255	242	234
SD.....	3,585	2,727	3,662	27	33	34	98.5	89.7	126.0	3.69	3.67	3.36	364	329	424
TX.....	6,000	4,600	5,000	24	35	30	144.0	161.0	150.0	3.68	3.55	3.35	530	572	503
WA.....	2,840	2,690	2,610	49	64	61	138.9	172.6	160.4	4.04	3.69	3.40	561	637	545

¹ Preliminary. ² 60 pounds per bushel. ³ See footnote 2, table 1177. ⁴ Includes States not shown separately.

No. 1180. COTTON—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1982 TO 1984

[Cotton production excludes linters. Values shown are for marketing season or crop year and should not be confused with calendar-year income. See Historical Statistics, Colonial Times to 1970, series K 553-558 for U.S. totals]

STATE	ACREAGE HARVESTED (1,000)			YIELD PER ACRE (lb.)			PRODUCTION (1,000 bales) ¹			FARM PRICE PER LB. ² (cents)			FARM VALUE ² (mil. dol.)		
	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984
Total ³	9,734	7,348	10,379	590	508	600	11,963	7,771	12,982	59.4	66.4	59.7	3,410	2,478	3,658
AL.....	285	215	307	775	409	699	460	183	447	58.5	65.7	55.9	129	58	120
AZ.....	512	313	479	1,089	1,183	1,187	1,161	772	1,185	61.9	70.2	61.3	349	260	340
AR.....	390	290	465	657	535	632	534	323	612	58.0	66.5	56.2	149	103	165
CA.....	1,370	950	1,400	1,077	996	994	3,073	1,971	2,913	69.9	72.8	65.8	987	689	920
GA.....	158	115	172	714	467	784	235	112	281	56.6	67.2	59.2	64	36	80
LA.....	595	410	645	702	623	786	870	532	1,056	56.5	65.4	55.1	236	167	279
MS.....	980	675	1,032	853	640	767	1,760	900	1,650	59.8	66.2	56.1	505	286	444
MO.....	151	93	162	648	377	554	204	73	187	59.2	68.5	58.5	58	24	53
TN.....	255	215	325	638	337	496	339	151	337	67.7	68.5	56.9	94	50	92
TX.....	4,320	3,572	4,719	303	324	377	2,723	2,412	3,710	51.7	59.9	55.4	676	694	987

¹ Bales of 480 lb net weight. ² Includes allowance for unredeemed loans in 1982 and 1983. For 1984, average price to April 1, 1985, with no allowance for unredeemed loans. ³ Includes States not shown separately.

No. 1181. TOBACCO—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1982 TO 1984

[See Historical Statistics, Colonial Times to 1970, series K 561-563, for U.S. acreage, production, and price]

STATE	ACREAGE HARVESTED (1,000)			YIELD PER ACRE (pounds)			PRODUCTION (mil. lb.)			PRICE ¹ (dol. per lb.)			FARM VALUE (mil. dol.)		
	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984
Total ²	913	789	793	2,185	1,811	2,180	1,994	1,429	1,728	1.76	1.75	1.81	3,519	2,496	3,122
FL.....	9	8	7	2,255	2,260	2,560	21	18	18	1.78	1.71	1.80	37	30	32
GA.....	49	44	38	2,155	2,190	2,250	106	96	86	1.80	1.80	1.83	190	174	156
IN.....	9	8	8	2,350	1,610	2,320	20	13	19	1.82	1.77	1.87	37	23	35
KY.....	244	203	229	2,414	1,597	2,320	589	325	530	1.80	1.75	1.85	1,062	568	982
MD.....	27	27	24	1,390	1,100	1,300	38	30	31	1.53	1.05	(⁹)	57	31	45
NC.....	326	278	272	2,151	1,969	2,172	701	547	590	1.78	1.78	1.81	1,249	973	1,067
OH.....	14	12	12	2,213	1,485	2,209	32	16	27	1.73	1.68	1.81	55	30	48
SC.....	59	54	47	2,105	2,090	2,245	124	106	106	1.77	1.81	1.81	219	204	191
TN.....	83	73	75	2,158	1,621	2,062	178	118	155	1.72	1.80	1.79	307	212	277
VA.....	62	54	54	2,033	1,028	2,153	125	99	116	1.76	1.72	1.79	221	171	207

¹ See footnote 1, table 1176. ² Includes States not shown separately. ³ Evaluated at 143.7 cents per pound, the average sales through April 30, 1985.Source: of tables 1179-1181: U.S. Dept. of Agriculture, Statistical Reporting Service, *Crop Production*, annual; and *Crop Values*, annual.

No. 1182. SUGAR, BEET AND CANE—SUPPLY AND DISAPPEARANCE: 1970 TO 1984

[In thousands of short tons, raw value]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, prel.
Total supply	14,392	13,132	14,515	15,827	14,828	14,621	14,110	14,380	12,441	12,003	12,041
United States production.....	5,874	6,300	6,798	6,089	5,602	5,793	5,736	6,225	5,936	5,682	5,888
Beet.....	3,511	3,473	4,003	3,423	3,067	3,066	3,052	3,182	3,160	2,588	3,059
Mainland cane ¹	1,201	1,720	1,745	1,652	1,506	1,687	1,661	1,995	1,793	2,050	1,767
Hawaii.....	1,162	1,107	1,050	1,034	1,029	1,080	1,023	1,048	983	1,044	1,082
Imports.....	5,296	3,682	4,658	6,138	4,683	5,027	4,495	5,025	2,964	3,186	3,559
Puerto Rico.....	353	96	203	102	52	47	178	48	80	67	24
Beginning stocks.....	2,869	2,854	2,856	3,498	4,491	3,754	3,701	3,082	3,461	3,068	2,570
Total disappearance	10,926	10,276	11,017	11,336	11,074	10,920	11,028	10,919	9,373	9,433	9,036
U.S. consumption.....	10,532	10,302	10,893	11,099	10,889	10,756	10,189	9,769	9,160	8,917	8,569
Exports.....	66	216	76	35	48	73	689	1,191	137	300	429
Other ²	328	-242	48	202	137	91	150	-41	76	216	38

¹ Florida, Louisiana, and beginning 1975, Texas. ² Includes net change in invisible stocks, balancing items, and minor quantities of sugar for livestock feed and alcohol.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Sugar and Sweetener Outlook and Situation*, quarterly.

No. 1183. SUGARCANE AND SUGAR BEETS—ACREAGE, PRODUCTION, AND VALUE; AND SUGAR PRODUCTION: 1970 TO 1984

[Data are for crop year. See also *Historical Statistics, Colonial Times to 1970*, series K 542-546]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984, prel.
Sugarcane for sugar and seed:											
Acreage harvested.....	1,000 acres.....	584	774	759	744	733	733	755	742	768	747
Yield per acre.....	Sh. tons.....	41.1	36.6	35.3	35.0	36.2	36.8	36.3	40.1	36.7	36.6
Production.....	Mill. tons.....	24.0	28.3	26.8	26.0	26.5	27.0	27.4	29.8	28.2	27.3
Price per ton for sugar ¹	Dollars.....	10.50	21.50	17.70	19.50	26.00	38.50	24.90	26.50	27.80	(NA)
Farm value ²	Mill. dol.....	* 140	608	474	507	691	1,036	682	790	781	(NA)
Sugar beets:											
Acreage harvested.....	1,000 acres.....	1,419	1,517	1,216	1,269	1,120	1,190	1,228	1,027	1,056	1,096
Yield per acre.....	Sh. tons.....	18.7	19.6	20.6	20.3	19.6	19.8	22.4	20.3	19.9	20.2
Production.....	Mill. sh. tons.....	26.4	29.7	25.0	25.8	22.0	23.5	27.5	20.9	21.0	22.2
Price per ton ¹	Dollars.....	14.80	27.60	24.20	25.20	33.90	47.20	29.20	35.40	37.00	(NA)
Farm value.....	Mill. dol.....	392	821	604	650	745	1,109	804	740	778	(NA)
Sugar produced:											
Beet, raw value ⁴	1,000 tons.....	3,322	4,019	3,108	3,289	2,879	3,149	3,388	2,737	2,699	2,902
Cane, raw value ⁴	1,000 tons.....	2,416	2,934	2,684	2,612	2,700	2,728	2,833	3,063	2,930	3,007
Per ton of cane ⁴	Lb.....	210	214	209	211	213	213	217	215	215	231
Cane, refined basis ⁵	1,000 tons.....	2,258	2,743	2,508	2,441	2,524	2,550	2,647	2,863	2,739	2,811
Molasses made from sugar cane ⁶	Mill. gal.....	141	183	165	162	165	163	183	177	176	174

NA Not available. ¹ Season average prices received by farmers. Prices exclude Government payments under Sugar Act. ² Excludes Hawaii. ³ Price per ton of cane for sugar used in evaluating value of production for seed. ⁴ Raw value equals 96° sugar as defined in Sugar Act of 1948. ⁵ Calculated on the basis of 100 lbs. of raw sugar required to produce 93.46 lbs. of refined sugar. ⁶ 80° brix except 85° brix for Hawaii. Includes high-test molasses from frozen cane.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Field Crops* (Statistical Bulletin 708); *Crop Production*, June issue annual; and *Crop Values* (Statistical Bulletin 729).

No. 1184. POTATOES—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1982 TO 1984

[Excludes Alaska and Hawaii. 1984 preliminary. Price is season average received by farmers; State prices weighted by sales. See *Historical Statistics, Colonial Times to 1970*, series K 532-534, for U.S. acreage, production, price]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (cwt)			PRODUCTION (mil. cwt)			PRICE (dol. per cwt)			FARM VALUE (mil. dol.)		
	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984
Total	1,267	1,243	1,300	280	269	278	355	334	362	4.45	5.82	5.67	1,563	1,936	2,034
CA.....	56	56	60	376	355	377	21	20	23	8.90	9.20	10.70	187	183	242
CO.....	52	53	60	282	297	320	15	16	19	3.65	6.25	4.30	53	99	92
FL.....	32	31	34	219	193	236	7	6	8	8.90	9.25	8.90	62	56	71
ID.....	322	312	325	285	278	266	92	86	87	3.50	5.20	5.15	321	447	446
ME.....	106	94	89	255	240	240	27	23	21	3.35	6.25	4.75	91	141	101
MI.....	49	53	57	260	228	266	13	12	15	4.85	6.60	5.60	60	80	95
MN.....	71	68	79	190	172	197	13	12	15	3.95	5.55	5.10	53	64	79
NV.....	13	12	10	315	310	330	4	4	3	2.60	5.70	5.40	11	21	16
NY.....	44	41	39	264	238	264	12	10	10	4.90	7.85	6.20	57	75	64
ND.....	115	128	133	150	160	155	17	20	21	4.35	4.90	4.50	75	100	93
OR.....	53	49	56	402	427	409	21	21	23	3.90	4.65	4.65	82	96	105
PA.....	21	22	22	235	200	245	5	4	5	5.50	8.10	6.50	27	35	34
WA.....	110	104	115	480	520	495	53	54	57	3.75	4.25	4.65	198	230	285
WI.....	65	62	61	350	305	350	23	19	21	4.10	5.55	4.80	93	105	98
Other.....	158	158	160	203	171	213	32	27	34	(x)	(x)	(x)	193	203	251

X Not applicable.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Crop Production*, annual, and *Crop Values*, annual.

NO. 1185. COMMERCIAL VEGETABLE AND OTHER SPECIFIED CROPS—AREA, PRODUCTION, AND VALUE, 1982 TO 1984, AND LEADING PRODUCING STATES, 1984

[Relates to commercial production for fresh market and processing combined. Includes market garden areas but excludes minor producing acreage in minor producing States. Excludes production for home use in farm and nonfarm gardens. Value is for season or crop year and should not be confused with calendar-year income]

CROP	AREA ¹ (1,000 acres)			PRODUCTION ² (1,000 short tons)			VALUE ³ (mil. dol.)			Leading States in order of production, 1984
	1982	1983	1984	1982	1983	1984	1982	1983	1984	
Beans, snap ⁴	204.4	196.7	216.6	643.9	587.4	666.1	106.6	94.3	113.9	WI, OR, NY
Beans, dry edible.....	1,777.0	1,138.7	1,456.3	1,278.2	776.0	1,037.7	363.8	347.9	373.8	MI, NE, CA
Broccoli.....	92.0	91.8	106.8	441.0	417.5	515.0	211.1	210.8	238.3	CA, TX, OR
Carrots.....	86.9	90.3	92.6	1,204.1	1,186.9	1,182.1	208.0	220.2	249.1	CA, MI, TX
Cauliflower.....	51.4	55.3	61.0	268.5	275.1	329.2	131.4	143.7	182.6	CA, OR, AZ
Celery.....	36.4	34.8	35.1	957.0	914.4	937.9	194.3	250.2	228.5	CA, FL, MI
Corn, sweet.....	633.0	590.6	620.2	2,741.2	2,227.8	2,552.9	344.2	318.5	367.1	MN, WI, OR
Honeydew melons.....	24.9	23.8	23.3	189.0	195.9	200.1	53.1	51.5	55.4	CA, TX, AZ
Lettuce.....	216.1	227.9	229.2	3,147.5	3,163.8	3,214.9	758.5	790.4	679.3	CA, AZ, FL
Peppermint.....	60.9	61.3	67.2	1.8	1.9	2.2	33.9	39.2	46.4	OR, WA, ID
Spearmint.....	22.8	26.2	27.9	7	8	10	17.1	19.7	26.2	WA, WI, ID
Onions.....	125.9	123.0	129.4	2,093.1	1,938.1	2,182.9	307.5	431.9	423.8	CA, TX, OR
Peas, green ⁴	303.8	308.8	330.5	496.3	425.7	495.3	112.5	92.3	117.3	WI, WA, MN
Strawberries.....	40.3	43.4	44.5	441.5	448.8	495.5	424.6	407.2	413.3	CA, FL, OR
Sweet potatoes.....	115.4	102.4	104.6	741.7	604.2	649.5	118.9	162.3	178.3	NC, LA, CA
Tomatoes.....	415.0	415.3	414.8	8,637.4	8,391.7	9,080.1	1,125.9	1,137.3	1,229.0	CA, FL, OH

¹ Area of crops for harvest for fresh market, including any partially harvested or not harvested because of low prices or other factors, plus area harvested for processing. ² Excludes some quantities not marketed. ³ Fresh market vegetables valued at f.o.b. shipping point. Processing vegetables are equivalent returns at packinghouse door. ⁴ Processing only.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Vegetables*, annual summary. Also in *Agricultural Statistics*, annual.

NO. 1186. FRUITS AND NUTS—UTILIZED PRODUCTION AND VALUE, 1982 TO 1984, AND LEADING PRODUCING STATES, 1984

FRUIT	UTILIZED PRODUCTION ¹				FARM VALUE (mil. dol.)			Leading States in order of production, 1984
	Unit	1982	1983	1984, prel.	1982	1983	1984, prel.	
Apples (34 States) ²	Mil. lb.	8,110	8,352	8,271	809	879	928	WA, NY, MI
Apricots.....	1,000 tons	118	94	117	36	29	35	CA, WA, UT
Avocados.....	1,000 tons	237	273	277	110	103	91	CA, FL
Cherries, sweet.....	1,000 tons	135	169	164	94	106	100	WA, CA, MI
Cherries, tart.....	Mil. lb.	245	154	255	35	72	63	MI, NY, UT
Cranberries.....	Barrels ³	3,039	2,986	3,313	142	155	172	MA, WI, NJ
Grapefruit (4 States).....	Mil. boxes ⁴	70.6	60.6	52.6	229	185	208	FL, CA, TX
Grapes.....	1,000 tons	5,665	5,360	5,140	1,359	1,066	947	CA, WA, NY
Lemons (2 States) ⁵	Mil. boxes ⁶	24.8	25.4	21.3	106	111	115	CA, AZ
Olives.....	1,000 tons	147	61	92	76	32	48	CA
Oranges and tangerines (4 States).....	Mil. boxes ⁷	181.7	230.7	174.0	1,209	1,360	1,253	FL, CA, AZ
Peaches.....	Mil. lb.	2,102	1,754	2,452	303	260	319	CA, SC, GA
Pears.....	1,000 tons	803	774	697	147	132	161	CA, WA, OR
Plums and prunes (fresh).....	1,000 tons	569	672	718	171	176	181	CA, WA, MI
Almonds.....	Mil. lb.	347	242	597	311	232	470	CA
Pecans (in the shell).....	Mil. lb.	219	270	232	147	158	145	GA, OK, TX
Walnuts, English.....	1,000 tons	234	199	213	239	126	161	CA

¹ Excludes quantities not harvested or not marketed. ² Production in commercial orchards with 100 or more bearing age trees. ³ 100 pounds. ⁴ Approximate average, net weight, is 65 lb. in AZ and CA, 85 lb. in FL, and 80 lb. in TX. ⁵ Includes estimates for AZ. ⁶ About 76 lb. net. ⁷ Net content of box varies. In CA and AZ approximate average for oranges and tangerines is 75 lb.; FL oranges, 90 lb.; TX oranges, 85 lb.; and FL tangerines, 95 lb.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Noncitrus Fruits and Nuts*, annual; and *Citrus Fruits*, annual.

NO. 1187. PRINCIPAL FROZEN FOODS—PRODUCTION: 1970 TO 1984

[Represents commercial pack]

PRODUCT	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Total fruits and vegetables.....	Mil. lb.	4,937	6,077	5,780	6,120	6,993	7,103	7,450	6,923	7,598	8,305	7,834	8,400
Vegetable, excl. potatoes.....	Mil. lb.	1,912	2,489	2,212	2,156	2,623	2,712	2,785	2,416	2,736	3,154	2,644	2,948
Potato products.....	Mil. lb.	2,404	2,985	3,001	3,395	3,823	3,849	4,060	3,653	4,236	4,377	4,510	4,793
Fruits and berries.....	Mil. lb.	621	604	567	629	697	543	575	653	626	774	680	719
Concentrates, juices and purees.....	Mil. gal.	(NA)	(NA)	(NA)	201	174	184	197	261	215	180	210	170
Seafood.....	Mil. lb.	368	340	300	552	566	617	605	549	484	501	593	598
Poultry.....	Mil. lb.	2,160	2,222	2,070	2,359	2,238	2,318	2,606	2,765	3,029	2,783	2,805	2,740

NA Not available.

Source: American Frozen Food Institute, Burlingame, CA, *Frozen Food Pack Statistics*, annual. (Copyright.)

No. 1188. CANNED FOODS—PRODUCTION: 1970 TO 1983

[In millions of standard cases of 24 No. 303 cans, except as noted. Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1970*, series P 233-234, for corn and tomatoes in cases of 24 No. 2 cans]

PRODUCT	1970	1980	1982	1983	PRODUCT	1970	1980	1982	1983
Fruits¹	99.4	95.1	² 56.9	(NA)	Seasonal vegetables	206.7	230.5	225.7	(NA)
Apples ²	2.3	1.6	1.6	1.6	Asparagus	5.9	2.5	2.7	2.5
Applesauce ³	14.1	10.6	10.9	10.5	Beans, green and wax	47.6	58.2	48.8	48.5
Apricots	3.8	3.0	1.6	1.2	Beans, lima	2.8	2.8	2.3	2.3
Berries	.4	.2	.4	.3	Beets ⁴	11.3	10.9	10.9	9.0
Cherries, red, pitted	1.0	.5	.5	.2	Carrots ⁵	5.4	4.4	5.9	4.7
Cherries, sweet	.7	.4	.5	.5	Corn, sweet	47.0	50.6	60.5	51.6
Cranberry sauce ⁶	3.9	3.6	3.6	(NA)	Greens, leafy	3.5	2.6	1.6	(NA)
Fruit cocktail	13.1	14.8	8.7	8.2	Peas, field	2.4	2.0	2.0	(NA)
Fruit salad/mixed fruits ⁴	1.2	3.2	2.4	1.3	Peas, green	28.7	30.1	24.8	20.8
Grapefruit sections ^{4,5}	2.3	1.2	(NA)	(NA)	Pimientos	.6	.5	.8	(NA)
Peaches	29.6	26.8	18.6	11.4	Pumpkin and squash	4.0	3.7	4.4	(NA)
Pears	8.6	10.9	7.8	7.2	Spinach ⁴	7.3	6.3	(NA)	(NA)
Pineapple ^{4,6}	17.8	17.1	(NA)	(NA)	Tomatoes ⁷	39.0	53.1	43.3	37.6
Plums, purple	.8	1.1	.4	.4	Other vegetable packs ¹⁰	3.2	2.8	.4	(NA)
Juices:^{3,7}					Nonseasonal vegetables:				
Apple	14.1	27.3	26.7	(NA)	Sweet potatoes ⁸	9.8	5.9	7.0	5.3
Grapefruit	26.0	19.0	(NA)	(NA)	White potatoes ⁹	6.6	5.9	5.7	(NA)
Orange	15.4	17.2	(NA)	(NA)	Chili sauce	1.5	2.0	1.8	1.7
Orange-grapefruit	2.5	1.1	(NA)	(NA)	Tomato puree	5.9	8.1	9.8	8.7
Pineapple ⁹	13.7	13.6	(NA)	(NA)	Seafood, salmon¹¹	3.8	4.4	2.4	3.8
Tomato ⁸	30.1	22.7	19.7	(NA)					

NA Not available. ¹ Basis: 24 No. 2½ cans. ² Excludes pineapple. ³ Pack beginning in year shown. ⁴ California only. ⁵ Florida only. ⁶ Represents U.S. pack and foreign operations. ⁷ Basis: 24 No. 2 cans. ⁸ Excludes combination vegetable-tomato juices. ⁹ Beginning 1982, excludes concentrated crushed tomatoes. ¹⁰ Okra; okra and tomatoes; and, for 1970 and 1980, succotash and carrots and peas. ¹¹ Basis: 48-1 lb. cans. Includes Alaska.

Source: National Food Processors Association, Washington, DC, *Canned Food Pack Statistics*, annual.

No. 1189. RED MEATS—SLAUGHTERING, PRODUCTION, AND TRADE: 1960 TO 1984

[Quantities represent carcass weight equivalent. 1960-1970 exclude Alaska and Hawaii except for exports and imports. Covers inspected, noninspected, retail, and farm slaughter. Excludes edible byproducts. Excludes USDA exports, military civilian feeding, and voluntary relief feeding. See also *Historical Statistics, Colonial Times to 1970*, series K 593-594]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984
All red meats:												
Animals slaughtered, total	Mil. head	135.0	130.7	137.3	124.8	128.2	132.3	139.7	136.8	128.8	135.0	133.8
Under Federal inspection	Percent	78	82	89	91	93	94	94	94	95	95	96
Production, total ¹	Bil. lb.	28.2	31.5	36.2	36.8	37.6	39.0	39.0	39.0	37.6	39.3	39.3
Federally inspected	Percent	78	82	89	90	93	94	94	94	95	95	96
Exports of U.S. production ²	Mil. lb.	223	250	305	449	646	673	642	714	680	682	699
Imports for consumption	Mil. lb.	1,048	1,347	2,429	2,248	2,856	2,974	2,664	2,333	2,589	2,670	2,721
Beef:												
Animals slaughtered, total	Mil. head	26.0	33.2	35.4	41.5	40.0	34.0	34.1	35.3	36.2	37.0	37.9
Under Federal inspection	Percent	75	80	87	89	93	94	94	94	94	94	95
Production, total	Bil. lb.	14.7	18.7	21.7	24.0	24.2	21.4	21.6	22.4	22.5	23.2	23.6
Federally inspected	Percent	78	82	88	90	93	94	94	94	95	95	95
Exports of U.S. production ²	Mil. lb.	55	91	101	110	214	215	220	252	305	312	376
Imports for consumption	Mil. lb.	760	923	1,792	1,758	2,297	2,405	2,064	1,743	1,939	1,931	1,823
Veal:												
Animals slaughtered, total	Mil. head	8.6	7.8	4.2	5.4	4.3	2.9	2.7	2.9	3.1	3.2	3.4
Under Federal inspection	Percent	61	65	72	72	87	89	89	89	88	88	90
Production, total	Mil. lb.	1,109	1,020	588	873	632	434	400	436	448	454	495
Federally inspected	Percent	56	56	57	57	71	73	74	74	76	78	82
Lamb and mutton:												
Animals slaughtered, total	Mil. head	16.2	13.3	10.8	8.1	5.5	5.2	5.7	6.2	6.6	6.8	6.9
Under Federal inspection	Percent	88	88	93	94	96	96	96	96	94	94	95
Production, total	Mil. lb.	768	651	551	410	309	293	318	338	365	376	380
Federally inspected	Percent	87	88	93	94	94	94	94	94	95	95	95
Pork:												
Animals slaughtered, total	Mil. head	84.2	76.4	87.0	69.8	78.4	90.2	97.2	92.5	82.8	88.1	85.6
Under Federal inspection	Percent	79	83	90	93	96	96	96	96	96	96	96
Production, total ¹	Bil. lb.	11.6	11.1	13.4	11.5	13.4	15.5	16.6	15.9	14.2	15.2	14.8
Federally inspected	Percent	79	84	90	93	95	95	95	95	96	96	96

¹ Excludes lard. ² Includes shipments to territories.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Livestock and Meat Statistics*, annual.

No. 1190. LIVESTOCK INVENTORY AND PRODUCTION 1970 TO 1985

[See also *Historical Statistics, Colonial Times to 1970, Series K 564-569 and 575-582*]

TYPE OF LIVESTOCK	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
ALL CATTLE												
Inventory: ¹ Number on farms.....	Mil.....	112.4	132.0	122.8	116.4	110.9	111.2	114.4	115.4	115.0	113.7	109.8
Total value.....	Bil. dol.....	20.2	21.0	25.2	27.0	44.7	55.8	54.1	47.9	46.7	45.0	44.1
Value per head.....	Dol.....	179	159	206	232	403	502	473	415	406	396	402
Production: Quantity ²	Bil. lb.....	39.4	40.9	40.7	40.0	38.8	40.3	41.2	40.7	40.3	40.0	(NA)
Beef, price per 100 lb.....	Dol.....	27.10	32.20	34.40	48.50	66.10	62.40	58.60	56.70	55.50	57.90	(NA)
Calves, price per 100 lb.....	Dol.....	34.50	27.20	36.90	59.10	88.70	76.80	64.00	59.80	61.70	59.90	(NA)
Value of production.....	Bil. dol.....	10.9	12.8	14.0	19.6	26.2	25.5	23.7	22.8	22.0	22.1	(NA)
HOGS AND PIGS												
Inventory: ³ Number on farms.....	Mil.....	57.0	54.7	54.9	56.5	60.4	67.3	64.5	58.7	54.5	56.7	54.0
Total value.....	Bil. dol.....	2.2	2.5	2.6	3.6	5.0	3.8	4.8	4.1	4.9	3.3	4.1
Value per head.....	Dol.....	39.00	44.90	47.00	63.20	83.20	56.00	74.70	70.10	89.90	58.80	75.00
Production: Quantity ²	Bil. lb.....	21.8	16.8	19.0	19.5	22.6	23.4	21.8	19.7	21.2	20.2	(NA)
Price per 100 lb.....	Dol.....	22.70	46.10	39.40	46.60	41.80	38.00	43.90	52.30	46.80	47.10	(NA)
Value of production.....	Bil. dol.....	5.0	7.8	7.5	9.1	9.4	8.9	9.5	10.3	9.9	9.5	(NA)
SHEEP AND LAMBS												
Inventory: ¹ Number on farms.....	Mil.....	20.4	14.5	12.7	12.4	12.4	12.7	12.9	13.0	12.1	11.5	10.4
Total value.....	Bil. dol.....	513	442	540	541	891	993	904	742	629	599	838
Value per head.....	Dol.....	25.10	30.50	42.50	51.60	72.10	78.20	68.90	57.10	51.80	52.10	61.10
Production: Quantity ²	Mil. lb.....	1,099	785	706	687	705	746	772	785	768	692	(NA)
Sheep, price per 100 lb.....	Dol.....	7.52	11.30	13.50	21.80	25.70	21.30	21.20	18.50	15.70	16.40	(NA)
Lambs, price per 100 lb.....	Dol.....	26.40	42.10	51.30	62.80	66.70	63.60	54.90	53.10	53.80	60.10	(NA)
Value of production.....	Mil. dol.....	260	303	320	382	407	403	359	356	357	376	(NA)

NA Not available. ¹As of Jan. 1. ²Liveweight production. Adjustment made for changes in inventory and for inshipments. ³As of Dec. 1 of preceding year.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Meat Animals—Production, Disposition, and Income*, annual; and annual livestock summaries. Also in *Agricultural Statistics*, annual.

No 1191. LIVESTOCK ON FARMS—NUMBER, PRODUCTION, AND VALUE, BY STATE: 1984 AND 1985

STATE	ALL CATTLE			MILK COWS			SHEEP AND LAMBS			HOGS AND PIGS		
	Number on farms, ¹ 1985 (1,000)	Quantity produced, ² 1984 (mil. lb.)	Value of production, 1984 (mil. dol.)	Number on farms, ¹ 1985 (1,000)	Milk produced on farms, 1984 (mil. lb.)	Value of milk produced, ³ 1984 (mil. dol.)	Number on farms, ¹ 1984 (1,000)	Quantity produced, ² 1984 (mil. lb.)	Value of production, 1984 (mil. dol.)	Number on farms, ⁴ 1984 (1,000)	Quantity produced, ² 1984 (mil. lb.)	Value of production, 1984 (mil. dol.)
U.S. ⁵	109,801	40,000	22,121	10,819	135,444	18,343	10,443	692.2	375.6	54,043	20,177	9,501
AZ.....	1,050	603.9	363.9	83	1,222	169.1	266	11.6	4.3	170	59.8	29.5
AR.....	1,850	563.3	253.6	79	808	114.7	-	-	-	400	167.7	81.5
CA.....	4,960	1,866.1	1,004.8	974	15,278	1,995.0	1,065	78.5	44.7	140	54.6	27.1
CO.....	3,000	1,618.3	1,024.7	75	956	144.5	690	48.7	27.4	210	94.8	45.7
FL.....	2,190	573.3	307.1	164	1,698	307.5	-	-	-	160	57.7	25.2
GA.....	1,750	420.7	194.1	118	1,278	186.6	-	-	-	1,200	457.4	208.9
ID.....	1,780	740.7	405.3	162	2,193	281.0	313	34.7	20.8	112	46.7	20.7
IL.....	2,500	817.6	473.9	225	2,629	354.9	136	11.7	6.1	5,400	2,258.7	1,067.3
IN.....	1,670	454.9	245.2	197	2,311	312.0	110	7.8	3.5	4,300	1,561.9	735.8
IA.....	5,600	2,078.3	1,181.0	345	3,805	498.5	360	28.9	17.4	14,200	5,372.8	2,505.3
KY.....	5,660	2,771.5	1,732.2	108	1,225	171.7	245	16.4	9.7	1,600	641.9	296.4
KS.....	2,580	782.5	364.4	232	2,106	282.2	27	2.1	1.2	880	294.3	145.0
MI.....	1,450	454.1	220.0	390	5,350	723.7	110	9.4	4.8	1,310	444.8	207.8
MN.....	3,550	1,340.8	653.1	890	10,391	1,324.4	255	22.3	12.6	4,300	1,488.5	710.9
MO.....	4,850	1,432.8	775.3	225	2,754	363.5	123	9.1	4.8	3,450	1,297.7	625.2
MT.....	2,960	1,136.6	563.2	27	345	48.0	518	30.9	17.2	155	58.4	26.6
NE.....	6,100	3,196.0	1,999.9	102	1,215	164.0	165	11.5	6.5	3,700	1,287.5	606.8
NM.....	1,410	576.4	276.1	65	1,006	142.2	538	18.4	9.5	35	12.9	6.4
NY.....	2,000	372.2	164.5	942	11,405	1,545.8	59	3.8	1.8	139	41.5	19.2
NC.....	1,175	254.0	120.2	127	1,649	247.4	8	.4	.2	2,300	838.8	381.0
ND.....	2,050	836.3	449.8	97	1,036	127.4	215	14.3	7.6	255	76.9	34.3
OH.....	1,835	612.5	335.5	380	4,600	623.3	265	17.3	9.5	1,970	731.5	351.1
OK.....	5,300	2,118.1	1,083.9	107	1,130	157.8	85	4.9	2.4	220	85.5	38.5
OR.....	1,650	554.6	277.5	96	1,338	185.6	430	26.3	14.4	110	53.7	25.8
PA.....	1,980	528.4	272.1	735	9,423	1,327.0	88	5.7	3.3	800	262.8	130.1
SD.....	4,160	1,774.8	1,038.2	161	1,691	215.2	639	54.8	29.7	1,600	608.9	286.6
TN.....	2,535	780.1	356.1	210	2,152	295.8	9	.5	.3	1,100	344.9	186.2
TX.....	14,100	5,297.1	3,179.6	314	3,850	556.1	1,810	112.7	57.9	415	189.6	88.2
UT.....	800	261.2	153.6	80	1,039	136.7	515	38.3	20.2	28	8.0	3.6
VA.....	1,760	660.7	313.9	162	1,967	273.4	125	9.0	3.9	370	158.5	74.2
WA.....	1,470	552.3	299.8	211	3,464	466.3	53	4.7	2.2	45	18.6	9.0
WI.....	4,440	1,155.2	647.1	1,840	23,501	3,086.5	81	5.7	3.3	1,300	531.1	251.6
WY.....	1,365	462.4	262.0	12	192	17.3	860	27.9	15.1	25	7.0	3.4

- Represents zero. ¹As of January 1. ²Liveweight production. Adjustment made for changes in inventory and for inshipments. ³Represents cows and heifers that have calved, kept for milk. ⁴Valued at average returns per 100 pounds of milk in combined marketings of milk and cream. Includes value of milk fed to calves. ⁵As of December 1. ⁶Includes other States, not shown separately.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Meat Animals—Production, Disposition and Income*, annual.

No. 1192. DAIRYING—COWS AND DAIRY PRODUCTS: 1970 TO 1984

[See also *Historical Statistics, Colonial Times to 1970*, series K 595-608]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984
Cows and heifers that have calved, kept for milk, Jan. 1 ¹	Mil. head	13.3	11.1	10.9	10.8	10.8	10.8	11.0	11.0	11.1
Milk produced on farms	Bil. lb.	117	115	122	123	128	133	136	140	135
Whole milk sold from farms ²	Bil. lb.	113	112	119	121	126	130	133	137	132
Sales to plants and dealers	Bil. lb.	110	110	117	119	125	129	132	136	131
Cash receipts from marketing of milk and cream ³	Bil. dollars	6.5	9.9	12.7	14.7	16.6	18.1	18.2	18.8	17.9
Sales to plants and dealers	Bil. dollars	6.3	9.7	12.4	14.3	16.3	17.8	17.9	18.5	17.7
Manufactured dairy products:										
Butter (incl. whey butter)	Mil. lb.	1,137	984	994	985	1,145	1,228	1,257	1,299	1,103
Cheese, total ⁴	Mil. lb.	2,201	2,811	3,520	3,717	3,984	4,278	4,542	4,819	4,674
American (excl. full-skim American)	Mil. lb.	1,428	1,660	2,079	2,190	2,376	2,642	2,752	2,928	2,648
Swiss (including block)	Mil. lb.	144	174	209	213	219	214	221	209	208
Muenster, Brick, and Limburger	Mil. lb.	59	74	78	80	87	82	87	85	93
Creem and Neufchatel	Mil. lb.	125	160	198	212	229	241	263	270	276
All Italian varieties	Mil. lb.	394	672	876	928	983	994	1,088	1,200	1,319
Cottage cheese: Creamed ⁵	Mil. lb.	1,038	991	1,024	840	825	773	749	743	734
Curd, pot, and bakers'	Mil. lb.	726	701	688	669	667	648	629	618	603
Condensed bulk milk	Mil. lb.	1,237	1,041	987	975	952	972	975	984	1,159
Evaporated and condensed canned milk	Mil. lb.	1,293	938	798	810	725	758	754	710	665
Dry whole milk	Mil. lb.	69	83	75	85	83	93	102	111	120
Nonfat dry milk solids ⁵	Mil. lb.	1,456	1,009	927	915	1,168	1,322	1,410	1,510	1,167
Dry whey ⁶	Mil. lb.	621	596	711	733	690	779	791	892	898
Dry buttermilk	Mil. lb.	60	43	48	45	44	44	39	46	40
Ice cream of all kinds	Mil. gal.	762	837	815	811	830	832	852	882	884
Milk sherbet	Mil. gal.	49	49	48	45	45	46	46	48	47
Ice milk	Mil. gal.	287	299	310	297	293	291	281	295	300
Wholesale prices, American cheese:										
40-lb. blocks, Wis. assembly points	Cents per lb.	55.0	86.6	107.1	123.8	133.0	139.4	138.3	138.3	138.0
Single daisies, Chicago	Cents per lb.	64.9	104.4	130.1	141.4	156.2	167.2	168.4	168.2	170.4
Prices received by farmers, whole milk:										
Wholesale, per 100 lb.	Dollars	5.71	8.75	10.60	12.02	13.05	13.77	13.61	13.58	13.46
Sold directly to consumers	Cents per qt.	27.0	35.4	38.8	42.3	45.3	48.3	48.1	48.4	49.2

¹ For 1970, cows and heifers 2 years old and over. ² Comprises sales to plants and dealers, and retail sales by farmers direct to consumers. ³ Includes varieties not shown separately. Beginning 1975, includes full-skim. ⁴ Includes partially creamed (low fat). ⁵ Includes dry skim milk for animal feed. ⁶ Includes animal but excludes modified whey production.
Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Production of Manufactured Dairy Products*, annual; and *Milk Production, Disposition, and Income*, annual.

No. 1193. WHOLE MILK SOLD—QUANTITY AND CASH RECEIPTS, BY STATE: 1982 TO 1984

[Covers sales of milk to plants and dealers]

STATE	QUANTITY (mil. lb.)			CASH RECEIPTS (mil. dol.)			STATE	QUANTITY (mil. lb.)			CASH RECEIPTS (mil. dol.)		
	1982	1983	1984	1982	1983	1984		1982	1983	1984	1982	1983	1984
U.S.	131,859	136,090	131,210	17,946	18,485	17,661	MO.	2,864	3,055	2,680	381	406	354
AL.	572	570	528	84	84	78	NE.	1,310	1,385	1,170	174	184	158
AZ.	1,190	1,225	1,210	165	170	167	NH.	348	366	350	50	53	50
AR.	797	823	778	115	119	110	NJ.	468	478	450	65	67	62
CA.	14,185	14,428	14,921	1,871	1,884	1,917	NY.	10,790	11,330	11,070	1,478	1,552	1,494
CO.	880	902	874	130	134	129	NC.	1,636	1,658	1,592	240	245	239
CT.	620	630	595	89	91	84	ND.	985	1,055	890	123	132	122
FL.	2,094	2,099	1,879	343	346	304	OH.	4,480	4,695	4,495	614	639	607
GA.	1,395	1,380	1,265	201	200	185	OK.	1,120	1,140	1,080	161	160	149
ID.	2,185	2,230	2,130	277	285	271	OR.	1,205	1,250	1,235	166	179	167
							PA.	8,755	9,015	8,995	1,226	1,262	1,250
IL.	2,616	2,675	2,571	353	361	347	SC.	540	546	515	83	85	80
IN.	2,300	2,330	2,265	313	317	306	SD.	1,740	1,805	1,669	226	233	212
IA.	3,888	3,924	3,611	513	518	473	TN.	2,230	2,160	1,955	303	294	268
KS.	1,326	1,355	1,195	186	190	167	TX.	3,690	3,896	3,750	539	565	536
KY.	2,280	2,330	1,960	308	315	283	UT.	1,110	1,116	975	143	144	126
LA.	940	920	865	138	134	125	VT.	2,335	2,445	2,255	329	347	316
ME.	710	715	715	104	105	104	VA.	2,035	2,050	1,940	283	285	270
MD.	1,568	1,592	1,516	220	223	212	WA.	3,070	3,320	3,295	408	442	432
MA.	565	575	540	82	84	78	WV.	337	348	352	46	47	47
MI.	5,145	5,410	5,230	700	738	706	WI.	22,680	23,230	22,690	2,998	3,073	3,005
MN.	10,270	10,835	10,065	1,333	1,402	1,290	Other	1,745	1,931	1,989	257	276	284
MS.	680	870	815	125	124	117							

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Milk: Production, Disposition, and Income*, annual.

No. 1194. POULTRY—NUMBER ON FARMS, VALUE, EGGS PRODUCED, AND PRICES: 1965 TO 1984

[Beginning 1970, data for chickens, eggs, and broilers are for Dec. 1 of previous year to Nov. 30 of year stated, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 609-623]

ITEM	Unit	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
Chickens: ¹ Number ²	Million.....	394	433	380	387	397	401	392	385	379	365	374
Value per head ²	Dollars.....	1.17	1.21	1.74	1.69	1.75	1.81	1.88	1.89	1.85	1.96	2.02
Value, total ²	Mill. dol.....	462	525	660	652	696	728	737	728	703	717	756
Number produced	Million.....	240	264	233	245	242	251	241	242	246	232	244
Price per lb.....	Cents.....	8.9	9.1	9.9	12.3	12.4	13.9	11.0	11.1	10.3	12.7	15.9
Production value	Mill. dol.....	101	107	105	145	142	171	129	135	121	145	182
Eggs: Number produced	Mill. doz.....	5,483	5,684	5,386	5,384	5,596	5,787	5,807	5,819	5,810	5,681	5,683
Price per dozen	Cents.....	33.7	39.1	52.4	55.6	52.2	58.3	56.3	63.1	59.5	61.1	72.3
Production value	Mill. dol.....	1,841	2,221	2,819	2,995	2,921	3,360	3,268	3,671	3,459	3,469	4,109
Broilers: ² Number produced	Million.....	2,334	2,987	2,950	3,394	3,614	3,951	3,993	4,148	4,149	4,184	4,282
Price per lb.....	Cents.....	15.0	13.6	26.3	23.6	26.3	26.0	27.7	28.4	26.9	28.6	33.5
Production value	Mill. dol.....	1,217	1,475	2,915	3,059	3,676	4,032	4,003	4,699	4,602	4,873	6,016
Turkeys: ⁴ Number ²	1,000.....	6,100	3,173	3,014	3,038	3,370	3,705	3,749	3,514	3,429	3,155	3,159
Value per head ²	Dollars.....	4.40	5.82	10.81	11.39	12.53	13.58	14.11	15.35	14.80	17.59	16.54
Value, total ²	Mill. dol.....	27	18	33	35	42	50	53	54	50	56	52
Turkeys, number raised	Million.....	106	116	124	136	199	159	165	171	165	171	171
Price per lb.....	Cents.....	22.2	22.6	34.8	35.5	43.6	41.1	41.3	38.2	39.5	38.0	48.9
Gross income.....	Mill. dol.....	424	498	793	910	1,157	1,214	1,272	1,246	1,255	1,269	1,655

¹ Excludes commercial broilers. ² 1965, as of Jan. 1; beginning 1970, as of Dec. 1. ³ Young chickens of the heavy breeds and other meat-type birds, to be marketed at 2-5 lbs. live weight and from which no pullets are kept for egg production. Not included in production of chickens. ⁴ Beginning 1970, data are for breeder hens only and cover the 26 major producing States. Beginning 1981, number of States covered reduced to 24.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Hatchery Production—Annual; Layers and Egg Production—Annual; Poultry—Production, Disposition, and Income; and Turkeys.*

No. 1195. POULTRY—PRODUCTION, BY STATE: 1982 TO 1984

[In millions. See *Historical Statistics, Colonial Times to 1970*, series K 611, 614, 617, and 621 for U.S. totals]

STATE	CHICKENS PRODUCED			BROILERS PRODUCED			CHICKS HATCHED COMMERCIALY ¹			TURKEYS RAISED		
	1982	1983	1984	1982	1983	1984	1982	1983	1984	1982	1983	1984
U.S.....	246.2	231.7	243.5	4,149.0	4,183.7	4,282.4	4,890.0	4,853.9	5,052.5	165.5	170.7	171.3
Alabama.....	12.5	13.9	15.3	500.2	515.7	536.6	828.5	843.8	870.5	(2)	(2)	(2)
Arkansas.....	21.5	23.7	18.7	668.5	673.1	725.0	780.9	791.9	828.0	13.0	12.9	14.4
California.....	21.7	18.0	21.2	167.4	171.6	175.5	222.9	217.0	225.8	20.0	20.2	19.7
Connecticut.....	3.3	3.6	2.7	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Delaware.....	1.0	1.0	1.0	177.8	181.9	189.6	(2)	(2)	(2)	(2)	(2)	(2)
Florida.....	8.6	6.3	7.8	97.2	97.4	96.2	150.6	147.2	152.1	(2)	(2)	(2)
Georgia.....	19.9	15.4	19.8	610.7	626.6	636.8	677.2	667.9	705.6	2.7	2.3	2.6
Illinois.....	3.7	2.8	2.7	(2)	(2)	(2)	(2)	(2)	(2)	.3	.2	.3
Indiana.....	16.6	17.2	20.5	(2)	(2)	(2)	(2)	(2)	(2)	6.8	6.7	6.3
Iowa.....	7.4	8.3	7.7	3.3	2.6	2.1	(2)	(2)	(2)	6.7	6.7	5.8
Kentucky.....	1.7	1.4	2.0	2.9	3.1	3.0	(2)	(2)	(2)	(2)	(2)	(2)
Louisiana.....	2.2	2.0	2.0	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Maine.....	4.7	4.1	4.1	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Maryland.....	4.4	4.1	4.1	267.2	260.5	271.2	(2)	(2)	(2)	.1	.1	.1
Massachusetts.....	.8	.8	.9	(2)	(2)	(2)	(2)	(2)	(2)	.1	.2	.2
Michigan.....	4.5	4.4	4.8	1.2	1.1	1.1	(2)	(2)	(2)	1.8	1.9	2.1
Minnesota.....	8.9	8.8	8.7	23.7	24.4	25.6	43.3	(2)	(2)	26.0	27.0	28.5
Mississippi.....	5.4	6.6	7.2	298.6	316.3	312.2	(2)	(2)	(2)	(2)	(2)	(2)
Missouri.....	5.6	5.4	6.4	(2)	(2)	(2)	(2)	(2)	(2)	12.0	13.0	12.0
New York.....	6.7	6.6	7.4	.6	.6	.7	(2)	(2)	(2)	.3	.3	.3
North Carolina.....	11.5	11.3	11.6	418.8	419.7	428.3	(2)	(2)	(2)	27.5	29.4	30.4
Ohio.....	10.3	10.2	13.8	13.5	11.0	9.0	(2)	(2)	(2)	2.7	2.4	2.8
Oklahoma.....	2.2	2.4	2.5	51.2	55.2	60.5	(2)	(2)	(2)	(2)	1.1	.8
Oregon.....	2.0	1.7	1.7	15.0	13.0	13.4	(2)	(2)	(2)	1.1	1.1	.9
Pennsylvania.....	16.8	14.9	6.9	114.9	102.6	89.4	172.5	163.2	129.0	5.3	6.8	6.1
South Carolina.....	5.1	3.8	5.4	48.0	52.2	57.2	54.2	56.2	61.7	2.6	2.2	2.2
Tennessee.....	2.7	2.5	2.9	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Texas.....	11.2	9.7	9.8	222.5	212.6	200.5	275.1	(2)	(2)	5.2	(2)	(2)
Virginia.....	3.2	2.7	3.5	140.1	144.0	147.8	172.4	171.8	(2)	10.1	11.4	10.8
Washington.....	4.5	3.8	3.7	20.5	20.5	21.7	(2)	(2)	(2)	(2)	(2)	(2)
West Virginia.....	.7	.7	.5	26.1	28.6	26.0	(2)	(2)	(2)	2.1	1.8	2.3
Wisconsin.....	2.4	2.4	2.7	11.7	11.3	11.5	(2)	(2)	(2)	6.7	7.1	6.1
Other ²	12.5	11.2	13.7	247.6	238.1	241.5	1,712.4	2,004.9	2,280.8	10.1	17.0	17.3

D Withheld to avoid disclosure. Z Less than 50,000. ¹ By commercial hatcheries. ² Derived by subtracting printed estimates from U. S. total.

Source: U.S. Dept. of Agriculture, Statistical Reporting Service, *Hatchery Production—Annual; Layers and Egg Production—Annual; Poultry—Production, Disposition, and Income; and Turkeys.*